

EXHIBIT 2

David Kessler , M.D.
Davol, Inc./C. R. Bard, Inc. - MDL 2846

January 31, 2020

Page 1

1
2 IN THE UNITED STATES DISTRICT COURT
3 FOR THE SOUTHERN DISTRICT OF OHIO
4

5 IN RE DAVOL, INC./) MDL Docket No.
6 C.R. BARD, INC.) 2846
7 POLYPROPYLENE HERNIA MESH)
8 PRODUCT LIABILITY LITIGATION)
9 LITIGATION, MDL 2817)
10)
11 THIS DOCUMENT RELATES TO:)
12 JESUS CAMPOS) Case No. 2:18-cv-00915
13 STEVEN JOHNS) Case No. 2:18-cv-01509
14 THOMAS McCOURT) Case No. 2:18-cv-01011
15 ANTONIO MILANESH) Case No. 2:18-cv-01320
16 GREGORY MILLER) Case No. 2:18-cv-01443
17 AARON STINSON) Case No. 2:18-cv-01022
18)
19
20
21
22

15 Videotaped Deposition of David A. Kessler, M.D.

16 Washington, D.C.

17 January 31, 2020

18 8:03 a.m.

19
20 Reported by: Bonnie L. Russo
21
22

David Kessler , M.D.
Davol, Inc./C. R. Bard, Inc. - MDL 2846

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Page 2	Page 4
1 Videotaped Deposition of David A. Kessler, M.D.	
2 held at:	
3	
4	
5 Cohen, Milstein, Sellers & Toll, PLLC	
6 1100 New York Avenue, N.W.	
7 Washington, D.C.	
8	
9	
10	
11 Pursuant to Notice, when were present on behalf	
12 of the respective parties:	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
Page 3	
1 APPEARANCES:	
2 On behalf of Plaintiffs and PSC: KELSEY L. STOKES, ESQ.	
3 FLEMING NOLEN JEZ LLP 2800 Post Oak Boulevard	
4 Suite 4000 Houston, Texas 77056	
5 713-621-7944 kelsey_stokes@fleming-law.com	
6 -and-	
7 PARVIN K. AMINOLROAYA, ESQ.	
8 SEEGER WEISS, LLP 55 Challenger Road	
9 Ridgefield Park, New Jersey 07660 212-584-0741	
9 paminolroaya@seegerweiss.com	
10 -and-	
10 NED McWILLIAMS, ESQ. LEVIN PAPANTONIO THOMAS MITCHELL	
11 RAFFERTY & PROCTOR, P.A. 316 S. Baylen Street	
12 Suite 600 Pensacola, Florida 32502	
13 850-435-7074 nmwilliams@levinlaw.com	
14 On behalf of Defendants:	
15 SEAN P. JESSEE, ESQ. JAMES FOSTER, ESQ.	
16 GREENBERG TRAURIG, LLP Terminus 200	
17 3333 Piedmont Road, NE Suite 2500	
18 Atlanta, Georgia 30305 678-553-7306	
19 jessses@gtlaw.com fosterja@gtlaw.com	
20	
21 Also Present: Gerard Maglasang, Seeger Weiss, Paralegal	
22 Daniel Russo, Videographer	

2 (Pages 2 - 5)

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1 EXHIBITS (CONTINUED):	
2	
3 Exhibit 27 Labeling - Regulatory 417	1 with the deposition audio. Audio and video
4 Requirements for Medical Devices	2 recording will continue to take place unless
5 Exhibit 28A Device Labeling Guidance 432	3 all parties agree to go off the record.
6 #G91-1 (Blue Book Memo)	4 This is Media Unit 1 of the
7 Exhibit 28B Ventralight ST 432	5 video-recorded deposition of Dr. David A.
8 Instructions for Use	6 Kessler, taken by counsel for Defendant in the
9 Exhibit 29 510(k) Ventralight ST 432	7 matter of In Re Davol, Incorporated\ C.R. Bard,
10 MPPE-05922391-5922488	8 Incorporated, Polypropylene Hernia Mesh Product
11 Exhibit 30 Attachment 6 - In-Vivo 469	9 Liability Litigation, filed in the United
12 Degradation Study in Rats	10 States District Court for the Southern Division
13 MPPE-05921983-5922171	11 of Ohio, Docket No. MDL 2846.
14 Exhibit 31 Davol Hernia Device 490	12 This deposition is being held at
15 History Review	13 Cohen Milstein Sellers & Toll, PLLC, located at
16 11-19-09	14 1100 New York Avenue, Northwest, Washington,
17	15 D.C.
18 Exhibit 32 Bard PerFix Plug 504	16 My name is Daniel Russo from the
19 MPPE-05945763-5945806	17 firm Veritext Legal Solutions. The court
20 Exhibit 33 Premarket Notification 507	18 reporter is Bonnie Russo from the firm Veritext
21 for the Marlex Mesh Dart	19 Legal Solutions.
22	20 Counsel and all present in the room
	21 will now state their appearances and
	22 affiliations for the record, please.
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1 P R O C E E D I N G S	
2	
3 (Deposition Exhibit 1 was marked for	1 MS. STOKES: Kelsey Stokes for the
4 identification.)	2 plaintiffs and the PSC.
5 (Deposition Exhibit 2 was marked for	3 MS. AMINOLROAYA: Parvin Aminolroaya
6 identification.)	4 for the plaintiffs.
7 (Deposition Exhibit 3 was marked for	5 MR. McWILLIAMS: Ned McWilliams,
8 identification.)	6 Levin Papantonio, for the plaintiffs.
9 (Deposition Exhibit 4 was marked for	7 MR. JESSEE: Sean Jessee for
10 identification.)	8 defendants C.R. Bard and Davol.
11 (Deposition Exhibit 5 was marked for	9 MR. FOSTER: James Foster for
12 identification.)	10 defendants C.R. Bard and Davol.
13	11 THE VIDEOGRAPHER: Will the court
14	12 reporter please swear in the witness.
15 THE VIDEOGRAPHER: Good morning.	13
16 We are going on the record at 8:03	14 DAVID A. KESSLER, M.D.,
17 a.m. on January 31st, 2020.	15 was called for examination by counsel and,
18 Please note that the microphones are	16 after having been duly sworn by the Notary, was
19 sensitive and may pick up whispering, private	17 examined and testified as follows:
20 conversations and cellular interference.	18 EXAMINATION BY COUNSEL FOR DEFENDANT
21 Please turn off all cell phones or place them	19
22 away from the microphones as they can interfere	20 BY MR. JESSEE:
	21 Q. Good morning, Doctor.
	22 A. Good morning, sir.

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1 Q. We just met a few minutes ago. But 2 just to reintroduce myself, my name's Sean 3 Jesse. And I represent the defendants Bard 4 and Davol in this case. 5 And I might say "Bard," and you know 6 I'm referring to both Bard and Davol, correct? 7 A. Of course. 8 Q. And I know you've been deposed a 9 number of times before so I won't go over the 10 rules. Just two things I wanted to point out. 11 If you need a break at any time, 12 just let me know. I'm happy to accommodate. 13 A. You're very kind. 14 Q. And if at any point when -- and I'm 15 sure it'll happen -- if I ask a question that 16 you don't understand, if you could please just 17 let me know. I'll try to ask a better 18 question. If you don't say anything, I'll 19 assume that you understood the question I'm 20 asking. 21 Does that sound fair enough? 22 A. Fine. Perfect.	1 what you need to. 2 Is this the same version that's 3 before -- that you have before you that was 4 served on December 4th, 2019? 5 A. Correct. 6 Q. And I see there's -- do you have the 7 different -- the way it's organized, it look 8 like, do you have it by the schedules and the 9 appendixes -- 10 A. Correct. 11 Q. -- bound in there? 12 Very good. 13 Exhibit No. 3 was a document that 14 was provided to us yesterday by your counsel. 15 And this is a supplemental reliance list dated 16 January 30, 2020. 17 So I'm going to put this over here 18 for you. And we'll talk about that here a 19 little later. 20 Exhibit No. 4 was another document 21 that was provided to us by your counsel 22 yesterday. This is titled "Errata Sheet for
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1 Q. To try to move things along here 2 today, I went ahead and marked several 3 documents that I had previously been provided 4 as exhibits just so we can get this out of the 5 way for the record. 6 The Exhibit 1 is the deposition 7 notice that was served in connection with your 8 deposition. And that's something it looks like 9 you brought with you as well. 10 A. I brought a copy, sir. 11 Q. Okay. So I take it that is 12 something you received? 13 A. Yes, sir. 14 Q. Exhibit No. 2 is the expert report 15 that you served -- or that was served on us in 16 this litigation. It's dated December 4th, 17 2019. And we'll just put this over here. 18 I understand that you've also 19 brought your own version of the report? 20 A. I did. 21 Q. And it's nicely bound there, it 22 looks like, and probably a lot easier to find	1 the 12-4-2019 Expert Report of David A. 2 Kessler, MD." 3 And then Exhibit No. 5 is an invoice 4 that was provided to us today dated December 5 10th, 2019, in the amount of \$237,264.93. 6 So I'll just put these all over 7 here. 8 And, Doctor, I can see that you 9 brought a number of documents with you today. 10 And so I just want to briefly walk through 11 those, what you brought with you. 12 So if you could, please, sir, just 13 starting with what's right in front of you. 14 A. So I have a number of sheets in 15 front of me, number of sheets behind me. These 16 are just cut and paste. These are notes over 17 time. Happy to have you look at them. 18 So there are sheets. There are 19 different size sheets. There's small sheets; 20 there's larger sheets; and there's even larger 21 sheets. And they're all behind me. 22 Q. Okay. Well, what I'm going to do is

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1 mark these as an exhibit. 2 And we can see if these are-- are 3 these your working copy? 4 A. Yes. 5 Q. Okay. Then we can see about maybe 6 making a copy of them. I'm fine if we make -- 7 if we can make a copy at the break, using those 8 as -- as an exhibit, and letting you keep your 9 original copies. 10 But I'm going to go ahead and mark 11 these as Exhibit No. 6, the documents you 12 brought here. 13 And so we will put it on this -- I 14 see you have a -- is that an index there that 15 says "General" on the top of it? 16 A. There's an index to the sheets. 17 MR. JESSEE: Okay. So I'm going to 18 go ahead and mark that -- that index as Exhibit 19 No. 6. 20 (Deposition Exhibit 6 was marked for 21 identification.) 22 THE WITNESS: Sure. My only request	1 example, in front of me, the cut and paste, 2 they may be cut and paste from just documents 3 that are cited in my report. They may be my 4 report. They -- they may be documents that are 5 cited in my report, for example. 6 So they're -- but they're almost 7 everything -- I don't want to say "everything," 8 but I -- they should be things that you 9 produced or in my report. 10 So -- and there may be notes on some 11 of these stuff, obviously. 12 Q. How did you decide which parts to -- 13 either parts of your report or documents to cut 14 out and put in -- paste in these documents you 15 brought with you today? 16 A. There -- it's a period -- it's over 17 time. It's what's salient in some ways at that 18 moment in time. And there is no -- just -- you 19 would have to track the neural synapsis in my 20 brain firing at any given moment why certain 21 things were salient and why I said, "I'm going 22 to cut this out and put this down."
1 is to -- so that I have these available. You 2 may have to make special arrangement. They're 3 sort of large. The -- somehow you'll -- maybe 4 after you'll arrange with counsel to have them 5 copied. 6 MR. JESSEE: Absolutely. 7 THE WITNESS: Just -- they're not -- 8 they're -- they're just not going to fit into a 9 normal copy machine. 10 MR. JESSEE: Sure. I'll tell you 11 what. We'll work it out. I'll work it out 12 with your counsel after -- or during a break. 13 But just want to make sure it's clear for the 14 record. 15 BY MR. JESSEE: 16 Q. And so these documents, these large 17 sheets that you have with you, you -- you said 18 "cut and paste." 19 And are these cut and paste from 20 your report? 21 A. They may be cut and paste from my 22 report. You know, these are schedules. For	1 But it's -- you know, it's what -- 2 there are a lot of documents in this case. 3 I've had access to the entire database. I've 4 searched the entire database. But you know 5 there's a lot of documents in there. 6 And so this -- there's just a lot of 7 paper. And some of this may be more salient 8 than other things. 9 Q. Okay. It's things thought at some 10 point in time at least you thought were 11 salient? 12 A. Oh, it could have been, yeah, for 13 some reason, or things I just -- it's -- it's 14 hard to keep every fact in your head, every 15 number in your head. That's impossible. There 16 are a lot of devices in this case. So there -- 17 I think you -- you -- you articulated well. 18 Q. And can you just walk me through -- 19 I see you have a number of different of these 20 large sheets put together. This one in front 21 of you right now, it says "General." 22 And what -- what does that indicate

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<p>1 when it says "General"?</p> <p>2 A. So general, for example, this has</p> <p>3 all -- this has, for example, five devices. I</p> <p>4 may have sets of sheets that are specific to</p> <p>5 one device, right? So this is general across</p> <p>6 the devices, right?</p> <p>7 Others may be labeled a collection</p> <p>8 or Ventralight ST or Ventralex or PerFix Plug</p> <p>9 that I may pull in front of me, you know, on a</p> <p>10 specific device.</p> <p>11 I don't want to -- these are all cut</p> <p>12 and paste. These are all sloppy. This is not</p> <p>13 meant for, you know, prime time but just --</p> <p>14 these are just, again, different things that it</p> <p>15 cited or saw, I mean, at different points in</p> <p>16 time in working on this case.</p> <p>17 Q. And just -- so these other large</p> <p>18 documents -- and I haven't had a chance to look</p> <p>19 at these yet though.</p> <p>20 But are these the ones that are</p> <p>21 right behind you on the table?</p> <p>22 A. Yes, sir.</p>	<p>1 Q. Yeah. You don't need to ask</p> <p>2 permission from me at all, Doctor.</p> <p>3 A. That's fine.</p> <p>4 So, for example, you'll see there</p> <p>5 are sets of sheets. This is general because</p> <p>6 it's multiple devices. You see a set of sheets</p> <p>7 on 3DMax, on Quintiles, on large Ventralex, on</p> <p>8 material safety data sheet, on PerFix Plugs.</p> <p>9 So you have a number of sheets on</p> <p>10 different subjects.</p> <p>11 Q. Okay.</p> <p>12 A. Okay?</p> <p>13 Q. All right. Thank you, Doctor.</p> <p>14 And then -- so I see then there are</p> <p>15 -- it looks like there's some --</p> <p>16 A. Larger sheets.</p> <p>17 Q. Larger sheets. Okay.</p> <p>18 And what -- why -- what are on</p> <p>19 those?</p> <p>20 A. Those are just -- those are -- those</p> <p>21 larger sheets couldn't be printed out. I think</p> <p>22 they're -- they're Excel spreadsheets. They</p>
<p>1 Q. And then there's a number -- I see</p> <p>2 binders too.</p> <p>3 Are those your counsel's, or are</p> <p>4 those things that you brought?</p> <p>5 A. No. Those are mine.</p> <p>6 Q. Those are things you brought too.</p> <p>7 If you wouldn't mind, could you just</p> <p>8 walk me through each of these sets of documents</p> <p>9 and binders, and just tell me what they are?</p> <p>10 A. You -- how specific do you want me</p> <p>11 to get? Do you want --</p> <p>12 Q. Just, I think, a general overview.</p> <p>13 And I'll let you know if I need any more</p> <p>14 specificity.</p> <p>15 A. Great.</p> <p>16 May I turn around?</p> <p>17 Q. Please.</p> <p>18 A. So as I said, you'll see that there</p> <p>19 are sets of sheets on different topics, right?</p> <p>20 Q. Okay.</p> <p>21 A. So there's a set of sheets -- may I</p> <p>22 stand?</p>	<p>1 just need -- in order to be readable, they had</p> <p>2 to be larger.</p> <p>3 Q. Oh.</p> <p>4 A. And so they are primarily a listing</p> <p>5 of studies or animal studies or preclinical</p> <p>6 studies on different devices. So that's what</p> <p>7 those are. And those are spreadsheets of those</p> <p>8 things.</p> <p>9 Q. Okay. Is there anything in these</p> <p>10 sheets that you've brought with you that is not</p> <p>11 in your report?</p> <p>12 A. Perhaps.</p> <p>13 Q. Okay. And would -- would it be fine</p> <p>14 be with you at the next break if we just take a</p> <p>15 look at those so I can determine if there are</p> <p>16 any questions --</p> <p>17 A. Sure --</p> <p>18 Q. -- to ask about it?</p> <p>19 A. If you could just leave them intact</p> <p>20 so I can use them and refer to them, I'm happy</p> <p>21 to have you look and make copies of them.</p> <p>22 They're certainly all available for you to</p>

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<p>1 review.</p> <p>2 Q. Okay. Thank you very much.</p> <p>3 Doctor, I want to talk a little bit</p> <p>4 about your background and qualifications.</p> <p>5 And you actually have a section in</p> <p>6 your report titled "Qualifications," correct?</p> <p>7 A. Correct.</p> <p>8 Q. And that's in your report on Page</p> <p>9 No. 1. And --</p> <p>10 MS. STOKES: Can you give me a copy</p> <p>11 of this, all the exhibits.</p> <p>12 THE WITNESS: Here. I can give</p> <p>13 you -- if you -- oh.</p> <p>14 MS. STOKES: I think he owes me</p> <p>15 some.</p> <p>16 Thank you.</p> <p>17 MR. JESSEE: Uh-huh.</p> <p>18 Then the invoice he has just</p> <p>19 provided, I don't -- I just have two --</p> <p>20 MS. STOKES: That's fine.</p> <p>21 MR. JESSEE: I just received two</p> <p>22 copies.</p>	<p>1 A. I'm -- I'm happy to do that.</p> <p>2 Q. It's a voluntary decision.</p> <p>3 A. That's correct.</p> <p>4 Q. The -- when was the last time you</p> <p>5 treated patients in a hospital setting?</p> <p>6 A. In a hospital setting? Actually in</p> <p>7 the hospital is the question.</p> <p>8 Q. In the hospital. Yes, sir.</p> <p>9 A. Oh, probably -- I don't know --</p> <p>10 early 2010. Don't hold me to exactly. 20</p> <p>11 teens is my guess.</p> <p>12 Q. Okay. And do you regularly see</p> <p>13 patients either in a hospital or office setting</p> <p>14 at --</p> <p>15 A. I see --</p> <p>16 Q. -- currently?</p> <p>17 A. I -- I see patients but not in their</p> <p>18 hospital setting. And I don't have a</p> <p>19 traditional office. But I take care of</p> <p>20 patients all of the time.</p> <p>21 Q. Okay. And when you say you don't</p> <p>22 have a traditional office, then where would you</p>
<p>1 BY MR. JESSEE:</p> <p>2 Q. So, Dr. Kessler, obviously you're a</p> <p>3 medical doctor, correct?</p> <p>4 A. Correct.</p> <p>5 Q. And your background is in</p> <p>6 pediatrics?</p> <p>7 A. Correct.</p> <p>8 Q. And you did your internship and</p> <p>9 residency both in pediatrics?</p> <p>10 A. Correct.</p> <p>11 Q. And I understand that at one time</p> <p>12 you were board certified in pediatrics, but you</p> <p>13 no longer are?</p> <p>14 A. Correct.</p> <p>15 Q. And --</p> <p>16 A. I'm board -- I mean I'm -- I am</p> <p>17 still board eligible. I just -- I mean I -- I</p> <p>18 let it go. I mean I -- I just didn't do my</p> <p>19 recertification. I can -- I'm eligible to do</p> <p>20 that as soon as I can get time. If you let me</p> <p>21 out from here.</p> <p>22 Q. Sure. And I understand --</p>	<p>1 typically see a patient?</p> <p>2 A. I will see a patient where I could</p> <p>3 see a patient. Some of this is on the phone.</p> <p>4 Mostly I -- you know, I mean I probably spent</p> <p>5 two, three hours a day on -- don't want to</p> <p>6 overstate it every day -- but taking care of</p> <p>7 patients at one sort or another.</p> <p>8 Q. And I understand, as part of your</p> <p>9 medical training, you have -- be involved with</p> <p>10 and learn about surgery when you're back in --</p> <p>11 doing your residency during your internship,</p> <p>12 correct?</p> <p>13 A. So I certainly did a lot of</p> <p>14 pediatric surge -- I was the one pediatrician</p> <p>15 who was assigned -- I was the only one who</p> <p>16 could deal with the surgeons. So I was sort of</p> <p>17 assigned to pediatric surgery division. So I</p> <p>18 did a good deal of surgery.</p> <p>19 Q. Okay. Today though you don't</p> <p>20 represent yourself as a surgeon.</p> <p>21 A. So --</p> <p>22 Q. Is that fair?</p>

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<p>1 A. So as my California license -- I 2 mean I think -- says -- it says "a licensed 3 physician" -- "physician and surgeon." But I 4 think that's somewhat anachronistic.</p> <p>5 So in the State of California, 6 you're licensed as a physician and surgeon. 7 But you wouldn't want me taking care of you in 8 the operating room, I think would be fair.</p> <p>9 Q. Okay. And for purposes of this 10 litigation, your role in this litigation's not 11 as a surgeon; is that -- is that fair?</p> <p>12 A. So I think where my role in this 13 litigation, I probably have great expertise 14 certainly on the regulation of surgical 15 products. That I have great expertise.</p> <p>16 So any medical device that would 17 involve surgeons or as it -- so it's that 18 interface between surgery and that product and 19 that regulation and that framework for 20 regulation that I probably have the -- the most 21 expertise on.</p> <p>22 Q. Okay. But not as far as actually</p>	<p>1 implantable devices. I certainly can watch 2 tapes and understand that -- those aspects as 3 it relates to the regulation.</p> <p>4 But I don't go -- you let the 5 surgeons talk about the practicalities of what 6 happens in the OR. But on the regulation and 7 the use, I would have expertise.</p> <p>8 Q. And do you know if you've ever 9 implanted a permanent medical device in a 10 patient?</p> <p>11 MS. STOKES: Object to form.</p> <p>12 Go ahead.</p> <p>13 THE WITNESS: I'd have to go -- we'd 14 have to go back and look at -- I mean I would 15 not have done that alone. I think it would be 16 fair. I think that would be improper.</p> <p>17 I may have been in the OR with a 18 implantable device. I may have done that in -- 19 in animal models when I was in surgical 20 research. But I have no recollection, sitting 21 here, of doing that in recent years.</p> <p>22 Q. Okay. Would it be fair to say, if</p>
<p>1 implanting the device; you're not the person 2 who's going to actually go and implant a hernia 3 mesh device, correct?</p> <p>4 A. You do not want me to do that.</p> <p>5 Q. When was the last time that you 6 performed a surgery?</p> <p>7 A. You have to -- not to be -- quibble 8 with you, sir. You have to define "surgery." 9 The last time took out a splinter. So there's 10 a -- there's a range of -- of surgical 11 procedures.</p> <p>12 Is a bone marrow a surgical 13 procedure? It -- it depends what you mean by 14 "surgical procedure."</p> <p>15 Q. Okay. When was the last time that 16 you implanted a medical device into a patient?</p> <p>17 A. I don't think -- I mean I worked in 18 a division of surgical research, but it was -- 19 it would be decades ago where I was in the 20 operating room.</p> <p>21 So you would, again -- that -- 22 again, my expertise is on the regulation of</p>	<p>1 it did happen, it was back during your 2 residency or internship?</p> <p>3 A. I mean I was also medical director 4 of a -- may have been -- a medical director of 5 a hospital for a decade. So I may have been in 6 the OR.</p> <p>7 But again, I -- that's not -- I -- I 8 don't actually do the implantation.</p> <p>9 Q. And so I take it that you've -- 10 you've never yourself implanted a hernia mesh 11 in a patient?</p> <p>12 A. I think that would be a correct 13 statement.</p> <p>14 Q. Have you been in the OR when a 15 hernia mesh was implanted in a patient?</p> <p>16 A. I have no recollection, sir, of 17 that.</p> <p>18 Q. Okay. Is it -- it's possible, 19 though, that you have been; is that fair?</p> <p>20 A. It certainly is possible. I just 21 don't have a recollection, sir. It would be 22 decades ago.</p>
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<p>1 Q. In addition to doing your medical 2 training, you also went to law school, correct? 3 A. Correct. 4 Q. And as I understand it, you -- while 5 you graduated from law school, obtained your 6 JD, you didn't actually take -- ever take the 7 bar to become a lawyer, right? 8 A. I -- I did that deliberately. I 9 resisted. 10 Q. Smart move, I'd say. 11 But you -- you don't hold yourself 12 out to be a lawyer, right? 13 A. I don't hold myself -- I've been a 14 -- I've taught at Columbia Law School. I've 15 published law review articles. I certainly 16 have engaged in that kind of scholarship. You 17 know, I've had articles -- articles that I've 18 written in law review journals have been cited 19 before the court. 20 But I don't hold myself out as a 21 lawyer. I'm not licensed deliberately. 22 Q. What is your current occupation?</p>	<p>1 A. I had. But there's some seismic 2 issue with the office. So I had to give it up 3 for seis -- for earthquake reasons. But happy 4 to go into those. 5 Q. No. We can probably, I think, skip 6 that -- that -- that part of it. 7 A. Right. 8 Q. I want to talk a little bit about 9 your time as commissioner of the FDA. And I 10 understand that the -- that was from 1990 to 11 1997. 12 Can you give me a little more within 13 that -- exactly -- do you know the start and 14 end dates during that time period? 15 A. Start is a little complicated. 16 Depends on your view of constitutional law, on 17 date of confirm, on date of oath, I mean. 18 But generally view December 1990 to, 19 I believe, the end of February '97. 20 Q. And that was the -- that time when 21 you served as commissioner, that was the only 22 time during your career that you were an</p>
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<p>1 A. So I'm a physician. 2 Q. Okay. In your position, I also 3 understand that you're a professor of 4 pediatrics and epidemiology and biostatistics 5 at the University of California at 6 San Francisco? 7 A. Correct. 8 Q. And that's a institution that you've 9 been at for quite a while now? 10 A. 2003. 11 Q. Okay. And you serve -- you were the 12 dean there -- 13 A. Correct. 14 Q. -- for a time period. And then 15 you've served as -- you've had this -- 16 positions as professors. 17 And when I say the professor of 18 pediatrics, is that separate then from 19 professor of epidemiology and biostatistics? 20 A. They're -- they're different 21 departments and divisions. 22 Q. Do you have an office at UCSF?</p>	<p>1 employee at the FDA, correct? 2 A. Correct. 3 Q. And you're not here speaking on 4 behalf of the FDA, obviously, right? 5 A. Absolutely. You could underline 6 that, put an asterisk. I'm speaking here, you 7 know, just my own -- on my own. I don't 8 represent the FDA. 9 I certainly have the experience of a 10 former FDA commissioner. I could tell you what 11 I would do -- how things would be pertinent for 12 me if I were FDA commissioner. You know, have 13 40 years of experience, probably more, in FDA 14 regulation. But I do not speak for FDA. 15 Q. Okay. Right. 16 And you -- and you said you can say 17 what you would have done if you were 18 commissioner, but that's going to be your 19 opinion, not the FDA's official opinion, right? 20 A. That's correct. I mean the F -- the 21 FDA -- there may be documents that we can look 22 at where we can objectively determine what</p>

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1 FDA's opinion would have been. And I certainly 2 could tell you what FDA's opinion was when I 3 was there. 4 Q. Right. 5 And you're not though going to be 6 testifying about the FDA or an individual FDA 7 employee's state of mind, correct? 8 A. I wouldn't rep -- want to talk about 9 anyone's state of mind, the FDA's employees' or 10 anyone else's. I think that would be improper. 11 Q. Okay. That would be -- and that 12 would include Bard or Bard employees? 13 A. I -- I -- nothing on subjective 14 intent. 15 Q. Now, as commissioner, you -- 16 obviously you oversaw the entire FDA operation, 17 right? 18 A. I was commissioner of the FDA. 19 Q. Yeah. 20 And that involved -- and I think you 21 have it here in your report -- that there were 22 five different divisions at that time when you	1 MS. STOKES: Form. 2 THE WITNESS: I -- I -- it depends 3 on who you ask, I think. 4 BY MR. JESSEE: 5 Q. Okay. And I'm just going from some 6 of your prior testimony. 7 But do you have -- in your personal 8 opinion, what was the -- one of the biggest 9 controversies you had when you were -- 10 A. Well, I mean, again, let -- 11 MS. STOKES: Objection. Form. 12 Vague. 13 THE WITNESS: But -- but let me see 14 if I can help you -- 15 MR. JESSEE: Sure. 16 THE WITNESS: -- I mean, and go 17 through it. 18 I mean if you were with HI -- if you 19 had HI -- if you were a patient with HIV, you 20 would say, during that period of time, HIV was 21 the most important, the most controversial 22 issue.
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1 were commissioner? 2 A. We can count them. I know foods, 3 drugs, medical devices, animal drugs, center 4 for veterinary -- I'm sorry -- National Center 5 For Toxicological Research and Center For 6 Biologics. 7 So depending on how you count, it's 8 five or six, whether you include NCTR or not. 9 Q. Okay. And it -- actually there's 10 another issue sort of outside of those five or 11 six areas that took up a large amount of your 12 time when you were commissioner, right? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: Be -- be a little more 15 specific. 16 BY MR. JESSEE: 17 Q. Okay. What -- what would you say 18 was the biggest controversy when you were -- 19 during your time as commissioner -- 20 MS. STOKES: Objection. Form. 21 BY MR. JESSEE: 22 Q. -- of the FDA?	1 If you're a person of the -- from 2 the food industry, you may say the food label 3 was the most important thing that we did, the 4 nutrition facts. 5 If you're a person from medical 6 devices, you may say it was breast implants or 7 our push to increase the scientific 8 underpinnings of devices and move toward 9 improved clinical trials. 10 I think what you're probably getting 11 at is the -- the regulation of cigarette -- 12 nicotine as a drug, right, which would have 13 been done under the drug authority. So it -- 14 it does have a place in FDA. 15 And that probably is probably the 16 most well known and may have, depending on 17 where you sit, I mean, as great an impact as 18 anything else. 19 BY MR. JESSEE: 20 Q. And I think you -- you made a good 21 point in -- in clarifying my question. 22 There was actually -- there was a

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<p>1 lot of very important things that happened at 2 the FDA in a number of different areas when you 3 were commissioner there, correct?</p> <p>4 A. Correct.</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: Correct. I mean -- 7 but -- as there always is.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. Oh, sure. And I'm not -- yeah. I'm 10 not trying to suggest -- I mean -- and when 11 you say it always is, it's not just when you 12 were commissioner there.</p> <p>13 There's been a lot of important 14 things that the FDA has done in these different 15 areas throughout the last 25 years and plus, 16 right?</p> <p>17 A. Correct.</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: I'm sure you'll -- at 20 one point you'll -- you'll have a question and 21 ask me whether it's the most important consumer 22 protection agency in the world, and I will say</p>	<p>1 were -- certainly weren't all the important 2 accomplishments that occurred while you were at 3 FDA, right?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: There were a lot of 6 things that -- that went on. I mean there 7 were -- I mean we did -- for example, I cite 8 here, you know, the quality system, regulations 9 and devices.</p> <p>10 MR. JESSEE: Right.</p> <p>11 THE WITNESS: And there are -- there 12 are many things that we can talk about.</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. Sure. And that -- my only point -- 15 I mean I didn't want to shortchange you. And I 16 am not trying to make it sound like that was 17 all you did, but --</p> <p>18 A. You're -- you're kind. I mean it -- 19 I think you can -- it was an active period. I 20 was a pretty hands-on commissioner.</p> <p>21 Q. One of the -- when you were talking 22 about some of those important actions that</p>
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<p>1 yes.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Okay. Well, maybe we can just skip 4 that question now.</p> <p>5 The -- I was looking online at 6 the FDA web site. And they're -- they have 7 numbers for the total number of full-time 8 employees there for the last few years.</p> <p>9 And the numbers that I saw from 2016 10 to 2018 were between -- each year was between 11 15,000 and 17,000 full-time employees.</p> <p>12 Does that sound about right to you?</p> <p>13 A. Correct.</p> <p>14 Q. How many full-time FDA employees 15 were there when you were commissioner?</p> <p>16 And I know it's been a while. But 17 if you could just give me best estimate.</p> <p>18 A. 10,000.</p> <p>19 Q. You mentioned in some of the -- in 20 your listing just some of the important 21 accomplishments.</p> <p>22 And I -- I would take it those</p>	<p>1 occurred while you were commissioner, you 2 mentioned a push to increase scientific 3 underpinnings of medical devices.</p> <p>4 Can you tell me a little more what 5 you mean by that?</p> <p>6 A. You could go -- I mean go read, for 7 example, the -- what's basically known as The 8 Temple Report. So we -- I think -- the 9 device -- the device center, device -- what was 10 passed in '76 and then reenacted in 1990 -- not 11 reenacted, sorry, but amended -- it was 12 primarily a grata to Bureau of Radiological 13 Health.</p> <p>14 And it was primarily viewed and 15 staffed by engineers. Nothing wrong with 16 engineers. I mean we need engineers. And 17 they'd looked at the mechanical properties of 18 devices. And they were not as focused on the 19 clinical consequences of devices.</p> <p>20 So we -- but there was a great deal 21 of push to improve the clinical evaluation of 22 medical devices. The -- the industry pushed</p>

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<p>1 back. I think -- I mean Alan Magazine, who -- 2 I mean when I -- the day I left, he handed me a 3 coffee cup that had my picture on it with a 4 circle and a line through that he had on his 5 desk.</p> <p>6 Because, you know, we tried to 7 increase the -- the -- the scientific 8 underpinnings of how devices should be tested 9 in people. The industry should have -- the -- 10 the clinical -- the -- the -- the clinical 11 data, especially when you're dealing with 12 devices that impact cert -- health and that are 13 implantable.</p> <p>14 Q. And, in fact, one of the 15 accomplishments I think you list in your report 16 is you created the committee for clinical 17 review?</p> <p>18 A. That would be the Temple Committee.</p> <p>19 Q. Okay. And this Temple Report that 20 you're referring to, that's something I'm not 21 familiar with.</p> <p>22 What is that exactly?</p>	<p>Page 42</p> <p>1 medical devices during your time as 2 commissioner was the MedWatch program was 3 established?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Is that correct?</p> <p>7 A. Correct.</p> <p>8 Q. And could you -- that was a -- a 9 program that involved the tracking of adverse 10 events that are happening in medical devices?</p> <p>11 A. So -- fair.</p> <p>12 Q. And maybe man -- maybe I should 13 expand that, say also the mandatory reporting?</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 THE WITNESS: Yes and no. So the 16 MedWatch really was to encourage voluntary 17 reporting. It -- it -- it grew up certainly 18 with -- you know, the -- the largest tradition 19 was in drugs but did include all device -- all 20 products: foods, biologics, devices.</p> <p>21 It was try -- it was a recognition 22 that voluntary reporting is notoriously</p>
<p>1 A. So The Temple -- The Temple Report 2 basically looked at studies that the CDRH 3 device center had been doing and said the 4 quality of those devices were relatively poor; 5 they were not adequate and well controlled; 6 didn't have defined end points.</p> <p>7 They -- they -- there -- there was 8 not the kind of testing that the agency had 9 grown up and had pioneered for drugs to assure 10 the safety on drugs. And it was basically to 11 improve the scientific quality of device 12 studies.</p> <p>13 Q. Okay. Then that would, in -- in 14 turn, have a positive impact on patient safety 15 and health, correct?</p> <p>16 MS. STOKES: Objection. Form.</p> <p>17 THE WITNESS: Yes. That was the 18 goal.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. Another -- trying to think of the 21 best term to use here -- I guess accomplishment 22 or another thing that happened with regard to</p>	<p>Page 43</p> <p>1 underreported. And manufacturers have to 2 report -- there are -- I mean, in certain 3 instances, there are defined requirements. And 4 then there were -- users had a -- user 5 facilities had a report. There were certain 6 defined requirements.</p> <p>7 But for the vast majority of 8 individuals, reporting was voluntary. They 9 didn't know. And if you said, you know, 10 there's -- the device complication rate is .04 11 percent, and that's what we get, and that's 12 notoriously underreported.</p> <p>13 We don't know the exact something -- 14 I mean somebody once said there was the Kessler 15 rule. It's really not -- it wasn't me. But 16 there's -- it was an effort to increase 17 reporting, I think was the --</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Okay. And again, in -- we'll -- 20 we'll talk a little bit more about medical 21 device reports later.</p> <p>22 But again, the real goal of the</p>

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<p>1 MedWatch program though is to help improve the 2 safety of these different product -- products 3 that you're regulating, right?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: So it was to gather 6 information in a post-marketing environment.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. And the goal of that gathering of 9 that information was to improve the consumer 10 and patient safety, correct?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: As all FDA action 13 does. It was another -- it was another set of 14 data.</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. You mention in your report in 17 Paragraph 5 that you placed a high priority on 18 getting promising therapies for serious and 19 life threatening diseases to patients as 20 quickly as possible.</p> <p>21 And can you tell me what you mean by 22 that sentence?</p>	<p>1 there are certain drugs that you need a faster 2 approval process than others, that these are 3 drugs that patients need to be able to get --</p> <p>4 MS. STOKES: Objection.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. -- faster.</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 THE WITNESS: I think way to say --</p> <p>9 there are certain conditions for serious and 10 life threatening conditions where there are not 11 alternative therapies, right? You -- there's 12 no other -- you're dying, and there's not an 13 alternative therapy.</p> <p>14 So you can put certain forms of 15 cancer in there. And you can put some 16 neurodegenerative diseases in there, diseases 17 where there's a real dire need for new 18 therapies.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. Well, and you also implemented 21 measures that offer all drugs to be reviewed 22 faster for -- procedures for that to take place</p>
<p>1 A. Sure. When I became FDA 2 commissioner in 1990, there was one drug for 3 HIV on the market. People were dying. It 4 didn't work very well.</p> <p>5 By the time left in 1997, we had 6 enacted the accelerated approval regulations. 7 And there were -- I don't know the exact 8 number. There were some 17 drugs -- so the 9 effort of a lot of people. I don't want to 10 take credit there -- but some 17 drugs for HIV.</p> <p>11 And that changed the course. It 12 wasn't a -- was not a cure but went from a -- 13 pretty much a death sentence to something that 14 at least there was a -- a good chance of 15 meaningful life --</p> <p>16 Q. Okay. So --</p> <p>17 A. -- with those drugs.</p> <p>18 Q. And I apologize. I didn't mean to 19 interrupt you there, Doctor.</p> <p>20 But the -- so, in general, the -- 21 the purpose of the -- of that was to -- in 22 layperson's terms, I guess, you want to --</p>	<p>1 as well, correct?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 THE WITNESS: Little -- there's some 4 nuances in the way you phrased the questions. 5 I don't mean to be -- I think you're probably 6 get to the Prescription Drug User Fee Act. 7 Reviewed faster but hopefully as 8 thoroughly, right? I just -- I just want to do 9 that. But we did the prescription drug user 10 fee that had defined performance goals for the 11 agencies.</p> <p>12 But in return the agency got more 13 resources in order to hire more people. So you 14 can get more done in shorter periods of time.</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. Right.</p> <p>17 And I -- and so it's just as 18 thorough of a -- of a review. But with the fee 19 that the manufacturer or whoever is submitting 20 it pays, then you're able to have more resource 21 -- resources review it quicker; is that --</p> <p>22 MS. STOKES: Objection. Objection.</p>

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<p>1 Form.</p> <p>2 THE WITNESS: The -- the -- we would 3 hope that what you just said happens in all 4 instances. But it's complicated all the time.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Okay. And actually, after the time 7 you were commissioner, there was a medical 8 device user fee system similar to what you had 9 implemented for the drugs that was put in 10 place, correct?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: As there was a generic 13 drug user fee. There were a number of users 14 fees that followed in those -- that kind of 15 model.</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. Okay. And those, again, allow for 18 more resources for -- the review time may be 19 shorter, but it doesn't necessarily mean that 20 the -- it's not as thorough, the review that's 21 under -- being undertaken, right?</p> <p>22 MS. STOKES: Objection. Form.</p>	<p>1 as commissioner, the FDA played a crucial role 2 in ensuring the safety and well-being of people 3 all over the country?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: You mean -- are you 6 quoting me?</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. I just want to know if you agree 9 with it, Doctor. I'm not --</p> <p>10 A. I mean if you have a --</p> <p>11 Q. I'm not trying to trick you or 12 anything like that.</p> <p>13 A. If you -- if --</p> <p>14 MS. STOKES: Same objection.</p> <p>15 THE WITNESS: If you have a 16 foundation for the statement.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. No. I -- No. I just want to know 19 if you agree with it. I'm...</p> <p>20 A. It's one of those general statements 21 that are -- that's made. Again, there's 22 multiple aspects to that.</p>
<p>1 THE WITNESS: Depends on the -- 2 depends on the review. And again, there's 3 complexities to that statement.</p> <p>4 BY MR. JESSEE:</p> <p>5 Q. Okay. And the -- you would agree 6 that, as a general proposition, that just -- 7 that the review time isn't necessarily 8 indicative of how thoroughly a product is being 9 reviewed?</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 Assume facts.</p> <p>12 THE WITNESS: I wouldn't agree with 13 that.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. Okay. So --</p> <p>16 A. I mean I'm happy -- happy to explain 17 why. I don't mean to be --</p> <p>18 Q. No. That's fine. We'll -- I'll 19 tell you what. We'll come back to that.</p> <p>20 Let's talk a little bit about --</p> <p>21 well, let me withdraw that and try it again.</p> <p>22 Do you agree that, during your time</p>	<p>1 Q. Okay. I mean and I understand, it's 2 a general statement that's made, like you said.</p> <p>3 Is that though something that you 4 agree with?</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: Well, let's get the 7 exact -- just give me the exact quote again.</p> <p>8 Q. Sure.</p> <p>9 Would you agree that the FDA plays a 10 crucial role in ensuring the safety and 11 well-being of people all over the country?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: As -- sure, in 14 general, right? But not in every single 15 product class.</p> <p>16 So if you're talking about a NDA --</p> <p>17 I'm sorry. If you're talking new drug 18 application, I mean the FDA has thoroughly 19 reviewed. If you're talking about a dietary 20 supplement where you don't have FDA review, in 21 essence, you -- that statement would not apply.</p> <p>22 If you're talking about a PMA, that</p>

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Page 54 <p>1 would apply, you know, to some extent depending 2 on what manufacturer -- so if you have a 3 510(k), you have less so. 4 So -- so you just have to be careful 5 about generalities as what it applies to. I 6 mean where -- I mean FDA's only as good as the 7 authority gets -- has under the statute and is 8 only as good as the information the 9 manufacturer has. 10 But there should be no doubt that 11 it's the manufacturer that has primary 12 responsibility to assure the safety of its 13 products.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. Would you agree that your -- it was 16 your experience, when you were at the FDA, that 17 the FDA employees are full of dedicated 18 professionals who share a commitment to protect 19 and enhance the public health?</p> <p>20 A. Yeah.</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 THE WITNESS: I would ask, if you're</p>	Page 56 <p>1 -- I will assume that, if you're quoting me, 2 you'll let me know you're quoting me, just as a 3 foundation.</p> <p>4 I think that it's fair to say -- I 5 mean those are the kinds of things that -- and 6 I -- I have enormous respect for people at the 7 agency. But it's, as you know, 10,000 people. 8 There are people who could out tomorrow and 9 earn five, ten times what their salary. Some 10 of them I've said publicly are national 11 resources. Others are clunkers.</p> <p>12 I mean so -- I mean it's like any 13 large organization. Does FDA get everything 14 right? Absolutely not. But I think, in 15 general, it's an agency that is a very 16 important -- I have enormous respect for.</p> <p>17 Q. Okay. And certainly -- and I 18 completely understand what you're saying. With 19 a large organization like that, you're not -- 20 you'll, you know, get a variety of different 21 people working there at different levels.</p> <p>22 But you certainly, as commissioner,</p>
Page 55 <p>1 quoting me, just to let me know.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. And as far as I -- you know, I -- I 4 can't tell you if I'm quoting you or not.</p> <p>5 A. Well, it sounds like you're quoting 6 me.</p> <p>7 Q. Well, and so that sounds like 8 something you would say?</p> <p>9 A. It -- it --</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 THE WITNESS: -- it sounds like I'm 12 -- and if you have a foundation, just -- can 13 you be up -- I just appreciate if you'd be -- 14 let me know if you're quoting me.</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. I -- I -- I will. I'll tell you I 17 -- I can't tell you -- I -- I honestly do not 18 know if I'm quoting you or not. I've -- I've 19 certainly thought seen statements similar to 20 that in your prior testimony. I can't tell you 21 if that's exact words or not.</p> <p>22 A. Right. So -- so let -- so again, I</p>	Page 57 <p>1 try to put competent and thorough people in 2 charge, in supervisory positions, right?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: Yeah. I think that's 5 a generalization that -- I mean to name the 6 position -- I mean let's be specific. If you 7 want to name a person in a position, I'll tell 8 you whether I think they're competent.</p> <p>9 I don't want to make a general -- I 10 mean a statement that everybody is competent 11 that was put in in -- in a general statement.</p> <p>12 So just -- if you could be --</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. Well --</p> <p>15 A. -- a little more --</p> <p>16 Q. Well, let's go with -- I mean --</p> <p>17 A. -- focused in your question.</p> <p>18 Q. Which actually -- what levels of 19 physicians were you personally involved with 20 making -- with hiring or choosing who's going 21 to serve in that position?</p> <p>22 MS. STOKES: Objection. Form.</p>

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<p>1 THE WITNESS: I -- I -- there -- 2 we'd probably have to spend the rest of the 3 deposition I mean to go through -- 4 BY MR. JESSEE: 5 Q. Oh. That's fair. That's fair. 6 A. I mean that kind of -- so there are 7 -- there are positions that reported to me, 8 right, that obviously I mean I would have been 9 involved in. There were center directors that 10 I was involved in -- in naming. 11 But there were -- you take the 12 promotional branch. I was involved in -- 13 again, not -- you know, sort of as a team. I 14 don't want to -- I never tried to usurp, and 15 was very careful, the person's supervisor. 16 But I would at times play at a 17 number of different layers of the organization. 18 So, for example, on drug promotion, I was -- I 19 was hands-on or promotional activities. Or in 20 compliance, for example, in devices I may have 21 had some say. 22 Q. Well, let's focus on devices.</p>	<p>1 So again, the -- the -- there are 2 certain exempt devices that they would not be 3 responsible for, I mean because they don't have 4 authority. But, you know, again, it depends on 5 what -- the class of devices we're talking 6 about. 7 BY MR. JESSEE: 8 Q. Sure. 9 But for the majority of medical 10 devices that are going to market, those are 11 going to be reviewed by the Office of Device 12 Evaluation? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: Yeah. I -- I -- I 15 don't mean to be -- to quibble. But even 16 your -- the -- the word "review," right? I 17 mean what does "review" mean? There's review 18 for substantial equivalence. There's review 19 for safety and effectiveness. 20 It becomes complicated because the 21 device -- there's different types of devices. 22 BY MR. JESSEE:</p>
<p>1 The -- the -- the division that 2 regulated back then and now medical devices is 3 the Center For Devices and Radiological Health 4 or CDRH? 5 A. The center. Yes, sir. 6 Q. And that's the -- there is a -- 7 within the CDRH a office of device evaluation, 8 correct? 9 A. These come by different names 10 over -- over times. But there is -- there are 11 -- there's a device evaluation center 12 divisions, yes. 13 Q. Okay. That division, whether it's 14 the device evaluation -- the office of device 15 evaluation or another name though, that's the 16 division that's responsible for reviewing 17 medical devices before they go to the market. 18 Is that a fair statement? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: Depending on the 21 statutory -- it depends on the statutory 22 structure of what they're responsible for.</p>	<p>1 Q. Well, and absolutely. And we're 2 going to talk -- I promise you we'll talk at 3 length about a 510(k) process and a PMA. 4 But you're not testifying that -- 5 under either process there's still review of 6 the application or the PMA, right? 7 MS. STOKES: Objection. Form. 8 BY MR. JESSEE: 9 Q. There's -- we can talk about -- 10 we'll talk about the -- how in-depth it is. 11 But as far as -- you're not 12 suggesting that there's not a review at all, 13 are you? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: Well, in certain 16 exempt devices. I mean certain Class I devices 17 there's not -- 18 MR. JESSEE: Right. 19 THE WITNESS: -- a review. 20 BY MR. JESSEE: 21 Q. But for Class II devices that are 22 subject to the 510(k) or Class III that are</p>

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1 subject to the PMA, there -- the FDA reviews 2 and they apply different standards, but they're 3 gong to review both those submissions, right? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: So there -- there's a 6 notification. It's -- there's a notification. 7 And depending on who you ask what the 8 terminology is, some may use the word 9 "concurrence," others -- I mean so what the 10 exact terminology is on the 510(k). 11 BY MR. JESSEE: 12 Q. Okay. And when you say 13 "concurrence" though, that would be akin to 14 saying clearance, correct? 15 A. Correct. 16 MS. STOKES: Objection. Form. 17 BY MR. JESSEE: 18 Q. And though -- again, just -- so my 19 question though is, with regard to whether 20 there's a review by the FDA of 510(k) 21 applications. 22 We can review there is a review --	1 Q. Okay. What does it depend on? 2 A. It depends on the -- the branch, the 3 staffing, the type of device that comes in. So 4 it depends how the -- the nature of the device. 5 Q. Okay. There's a number of different 6 branches within the CDRH, right, with -- that 7 cover different types of devices? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: Correct. 10 BY MR. JESSEE: 11 Q. And depending on what the -- and 12 speaking about 510(k)s now, depending on what 13 type of products involved, that will determine 14 which branch is going to receive the 15 application, correct? 16 A. Correct. And at different points in 17 times those branches have gotten reorganized 18 and... 19 Q. Sure. 20 And when we talk about the -- 21 there's generally a primary reviewer assigned 22 for 510Kk) applications?
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1 we can agree there's a review, right? 2 MS. STOKES: Objection. Form. 3 THE WITNESS: There is -- let's -- I 4 think it would be -- if you added that -- so 5 for clarity, there is a review for substantial 6 equivalence to see whether the device can be 7 cleared. But there's not an approve -- a 8 review for approval based on safety and 9 effectiveness. 10 BY MR. JESSEE: 11 Q. Sure. And there's -- there's 12 primary reviewers though for 510(k) 13 applications that come in, correct? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: I mean there -- there 16 are certain people assigned to applications. 17 BY MR. JESSEE: 18 Q. And those are typically engineers or 19 scientists? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: Not -- it depends. 22 BY MR. JESSEE:	1 Is that your experience? 2 MS. STOKES: Objection. Form. 3 THE WITNESS: There'll be a -- 4 generally there'll be a person assigned, yes. 5 BY MR. JESSEE: 6 Q. Okay. But there's actually multiple 7 layers of review, correct? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: Depends. Depends on 10 the application. There could be. I mean 11 everyone has a supervisor. 12 BY MR. JESSEE: 13 Q. Sure. 14 And so they might go up to their 15 supervisor and ask questions within their 16 division or even within the CDRH, right? 17 MS. STOKES: Objection. 18 THE WITNESS: Or to me. I mean I -- 19 I would get questions from -- I mean on the 20 complicated -- on complicated devices they will 21 ask me. 22 BY MR. JESSEE:

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<p>1 Q. Okay. For 510(k)s?</p> <p>2 A. I have to go -- some of the more</p> <p>3 controversial may have been 510(k) that I --</p> <p>4 that I certainly played on.</p> <p>5 Q. I'll tell you what. I'll -- we'll</p> <p>6 -- I'll -- this is a quote that I found from</p> <p>7 you that says -- when talking about review --</p> <p>8 FDA reviewers: "When they didn't know the</p> <p>9 answer on a clearance or on a device question,</p> <p>10 it was brought to me. And that was pretty</p> <p>11 consistent. I mean I would say there wasn't a</p> <p>12 month that would go by there wasn't a device</p> <p>13 question, device briefing where I was brought</p> <p>14 questions."</p> <p>15 Is that an accurate...</p> <p>16 MS. STOKES: Objection.</p> <p>17 THE WITNESS: That's a general</p> <p>18 statement. I don't -- I think I would</p> <p>19 probably -- I don't think there would be -- did</p> <p>20 I say every month? I think that would be fair.</p> <p>21 I would -- I would -- there would be a device</p> <p>22 question probably much more often than that.</p>	<p>1 maybe a question that their supervisor or their</p> <p>2 supervisor can't answer where -- someone within</p> <p>3 the CDRH can't answer, then there were certain</p> <p>4 difficult questions that would make their way</p> <p>5 up to you?</p> <p>6 MS. STOKES: Objection. Form.</p> <p>7 THE WITNESS: I think they want --</p> <p>8 you know, pretty collegial. Things that might</p> <p>9 have had policy implications; things that were</p> <p>10 in the press. There were major device issues</p> <p>11 that were in the press, things that would be</p> <p>12 the subject of congressional hearings. Other</p> <p>13 kinds of controversies would certainly work</p> <p>14 their way up to me.</p> <p>15 And they would have different</p> <p>16 regulatory statuses, some 510(k)s, some</p> <p>17 preamendments, some PMAs, some radiological</p> <p>18 health. So they were across the board.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. And you'd agree that the vast</p> <p>21 majority of devices that went to marketed when</p> <p>22 you were commissioner went to the market</p>
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<p>1 And some were -- had all different legal</p> <p>2 statuses where I was brought questions.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Was there ever a time when you would</p> <p>5 actually review a 510(k) submission?</p> <p>6 MS. STOKES: Objection. Improper</p> <p>7 hypothetical.</p> <p>8 Go ahead.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. And -- and by that, let me -- let me</p> <p>11 rephrase that just so I'm being a little</p> <p>12 clearer here.</p> <p>13 Obviously you were never the primary</p> <p>14 reviewer for a 510(k) submission, correct?</p> <p>15 A. Somebody would -- I mean somebody</p> <p>16 would usually bring me the question. I think</p> <p>17 that would be fair.</p> <p>18 Q. Okay.</p> <p>19 A. I mean -- and again, I was brought</p> <p>20 the -- the difficult questions.</p> <p>21 Q. Okay. So if they have -- if they --</p> <p>22 a reviewer is looking at a 510(k), there are --</p>	<p>1 through the 510(k) regulatory pathway, correct?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 Vague.</p> <p>4 THE WITNESS: I think that's a fair</p> <p>5 statement.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Did you ever -- during your time as</p> <p>8 FDA commissioner, still focusing on -- on that</p> <p>9 time, did you ever review the labeling for a</p> <p>10 Class II device that was going through the</p> <p>11 clearance process?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: Sure. I mean in the</p> <p>14 kind of questions -- I mean the labeling is</p> <p>15 sometimes the intended use. Sometimes the --</p> <p>16 the safety, the warnings, the restricted use.</p> <p>17 I'd have to go back and think which</p> <p>18 classes -- which devices were which classes. I</p> <p>19 don't have those quite in my head.</p> <p>20 But certainly what would be say --</p> <p>21 what was said about a device was sometimes the</p> <p>22 key issue. The labeling was key to the</p>

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<p>1 agency's consideration of the device.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Do you recall any specific 510(k)s</p> <p>4 that you were consulted with while you were the</p> <p>5 commissioner?</p> <p>6 MS. STOKES: Objection. Form.</p> <p>7 THE WITNESS: We'd have to go back</p> <p>8 and look at the regulatory -- the issues</p> <p>9 that -- but there were a whole bunch of</p> <p>10 collagen, other type of devices that I were</p> <p>11 involved in.</p> <p>12 Some were -- there were certain</p> <p>13 implants that were Class II at certain periods</p> <p>14 of time, then were Class III or down-classed to</p> <p>15 Class II. So there were -- there were</p> <p>16 certainly certain sets of implants that's were</p> <p>17 Class II. Some were Class III. And I just</p> <p>18 don't have a perfect memory.</p> <p>19 But I -- there were cert -- I don't</p> <p>20 have a memory of exactly which ones were Class</p> <p>21 II and which ones were Class III. And</p> <p>22 sometimes they changed classes. And that's</p>	<p>1 tend to remember the name of the device or the</p> <p>2 type of product. The -- the -- I may not</p> <p>3 remember the -- I don't remember the classes</p> <p>4 and all the legal. But I would tend to -- and</p> <p>5 I do not have any recollection of being</p> <p>6 involved in any of the surgical mesh devices.</p> <p>7 I -- I don't think there were any of</p> <p>8 the preamendment devices. And most of the</p> <p>9 devices I were involved in were -- were</p> <p>10 preamendment devices that were Class III.</p> <p>11 MR. JESSEE: Okay. And just to</p> <p>12 maybe help out here, what I -- I'm going to</p> <p>13 mark as Exhibit No. 7 a document that we put</p> <p>14 together from the FDA web site.</p> <p>15 (Deposition Exhibit 7 was marked for</p> <p>16 identification.)</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. And, Dr. Kessler, you understand</p> <p>19 obviously that there is a -- you can search the</p> <p>20 different 510(k)s that have been cleared by the</p> <p>21 FDA on the web site, right?</p> <p>22 A. Correct.</p>
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<p>1 what we did.</p> <p>2 Q. Sure. And I -- and I understand</p> <p>3 this is 25 years ago, approximately. So I</p> <p>4 understand it's a while ago.</p> <p>5 Do you recall ever being consulted</p> <p>6 with on a surgical mesh 510(k) while you were</p> <p>7 --</p> <p>8 A. Surgical mesh?</p> <p>9 Q. Yes.</p> <p>10 A. I have no recollection. I guess</p> <p>11 there were three surgical meshes from your</p> <p>12 client during that period of time, if my memory</p> <p>13 -- if I'm right.</p> <p>14 I guess it was Visilex or the</p> <p>15 original Kugel. I think it was right -- '96.</p> <p>16 I don't recall being involved in any of them.</p> <p>17 Q. It's -- is it possible that you were</p> <p>18 and just don't recall?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: I have no</p> <p>21 recollection. I mean I -- I would tend -- I</p> <p>22 would -- I would tend to recommend -- I would</p>	<p>1 Q. And so what -- what we did in the</p> <p>2 document that's before you is just go through</p> <p>3 from the years 1990 to 1997 and searched for</p> <p>4 the product code for surgical mesh, FTL. And</p> <p>5 this is just a list of what came up on this</p> <p>6 search.</p> <p>7 MS. STOKES: I'm just going to</p> <p>8 object to this document generally as</p> <p>9 foundation.</p> <p>10 Go ahead.</p> <p>11 THE WITNESS: Yeah. I -- I -- I</p> <p>12 understand the document.</p> <p>13 MR. JESSEE: Okay.</p> <p>14 THE WITNESS: And I -- I --</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. And in --</p> <p>17 A. I -- I take the document to be what</p> <p>18 it is.</p> <p>19 Q. Right.</p> <p>20 And as far as I mean the number, you</p> <p>21 can see there's 51 surgical meshes there.</p> <p>22 Do you have any reason to dispute</p>

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<p>1 that 51 surgical meshes were cleared during 2 your time as commissioner? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: I -- again, I wouldn't 5 want to rely on this for the exact number. I 6 mean you -- you can -- the record can show what 7 the record shows.</p> <p>8 MR. JESSEE: Okay.</p> <p>9 THE WITNESS: I think there were 10 three Bard -- let's see -- just see.</p> <p>11 How many Bard were there?</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. Well, why don't we walk through in 14 here what we have here.</p> <p>15 A. I mean -- I mean -- so I think there 16 were three Bard devices, if my memory serves me 17 right.</p> <p>18 Q. Okay. And when you say if your 19 memory serves you right, are you talking about 20 your memory from the time as commissioner or 21 your memory as part of the litigation work 22 here?</p>	<p>1 A. Correct. 2 Q. And do you recall being consulted on 3 that 510(k)? 4 A. I have no recollection. I do not 5 believe I was. 6 And you should have the Kugel -- the 7 original Kugel should be here. 8 Q. Okay. And that -- that actually 9 wasn't a Bard product when it was originally 10 cleared, correct? 11 A. You know -- well, actually, here it 12 is. So you're right. So here it's a -- it's 13 a -- I'm not going to pronounce it right -- a 14 Douglas Bueshel. That -- that device was 15 cleared. That's the third one. It -- it 16 ultimately became Bard. 17 Q. Do you know when the Kugel line was 18 acquired by Bard? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: I do not. 21 BY MR. JESSEE: 22 Q. Another one of the devices that's</p>
<p>1 MS. STOKES: Objection. 2 THE WITNESS: Part of the -- just 3 total memory, right? Because I don't remember 4 being involved in any mesh device -- 5 MR. JESSEE: Okay. 6 THE WITNESS: -- issues. 7 BY MR. JESSEE: 8 Q. And when we're talking about the 9 specific Bard surgical meshes that were cleared 10 while you were commissioner, we -- if you look 11 at the list we have here, in -- August 24th, 12 1992, we have the Bard Marlex Mesh Dart? 13 A. Correct. 14 Q. And do you recall being consulted on 15 that 510(k)? 16 A. I was not, to the best of my 17 knowledge. 18 Q. We also have listed here -- if 19 you'll go to -- the Visilex that I think you 20 talked about? 21 A. Correct. 22 Q. And that would have been in 1995?</p>	<p>1 listed on this list a number of times, 2 different types of it, is the Gore-Tex device. 3 Is that a device you're familiar 4 with? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: I am certainly 7 familiar with it. No, I do not believe I 8 was -- I was not involved with it. It's an 9 ePTFE. It was not a composite. It was just 10 two layers of ePTFE. 11 BY MR. JESSEE: 12 Q. If we look again at the -- towards 13 the end of this list I have in front of you, 14 there is one that's listed in August 6, 1997, 15 Bard Composite Prothesis. 16 Do you see that? 17 A. Yeah. It's after I left. 18 Q. And that's what I was going to try 19 to get. Do you remember exactly or -- when you 20 left? 21 A. I actually do. 22 Q. When would that be, Doctor?</p>

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<p>1 A. It was the last day -- actually, I 2 can remember -- it was a White House ceremony. 3 Off the record, I will tell you why I remember 4 it, but if I -- if I'm correct, it was the last 5 day of February '97.</p> <p>6 So that device I did was not 7 involved. I mean, I wasn't involved in any of 8 those, but that was not during my watch.</p> <p>9 Q. Right.</p> <p>10 A. I mean -- and I think that's key, 11 because that is the -- that is the -- that was 12 the composites, correct?</p> <p>13 Q. So what I'm looking at, actually, is 14 the one -- part of the composite?</p> <p>15 A. Right. And that is the Marlex Plus. 16 That was based on a Marlex -- the predicates of 17 Marlex Plus ePTFE in '97 in August, right? And 18 so that was a -- that was a different type of 19 device.</p> <p>20 Q. And so the -- who was the -- let me 21 strike that and try better.</p> <p>22 Was Jim Benson the director of the</p>	<p>1 appointed --</p> <p>2 Q. With regard -- and I'll just lump 3 them together. Dr. Benson -- is it Dr. Benson?</p> <p>4 A. He was an engineer.</p> <p>5 Q. Okay. So Mr. Benson, Dr. 6 Burlington, and 7 Dr. Feigal, I take it you don't have any 8 criticisms of their fulfillment of their duties 9 at the FDA?</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 Vague. Argumentative. Compound.</p> <p>12 Go ahead.</p> <p>13 THE WITNESS: Yeah. So that's -- I 14 mean, I'm happy to discuss each one.</p> <p>15 You can see in the shift, Jim, very 16 dedicated FDA official for 30 years, was an 17 engineer.</p> <p>18 And then you see, as we talked 19 earlier, moving Bruce -- Bruce was in the 20 Center for Drugs. And moving Bruce over to 21 devices was, again, part of that effort to try 22 to improve the science base so it was not just</p>
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<p>1 CDRH when you first began?</p> <p>2 A. I believe so. He was also deputy 3 commissioner. I think that's correct.</p> <p>4 Q. And then I think Dr. Bruce 5 Burlington was the -- in charge of the CDR -- 6 excuse me -- CDRH for a period of time during 7 your --</p> <p>8 MS. STOKES: Objection. Form.</p> <p>9 THE WITNESS: Correct.</p> <p>10 BY MR. JESSEE:</p> <p>11 Q. And who was in charge when you left, 12 do you recall?</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: I don't know whether 15 Dave Feigal was in charge or not. I'm blocking 16 them. I'd have to go back and check.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. And you're talking about David -- 19 Dr. David Feigal?</p> <p>20 A. Yeah. So Feigal was HIV. I believe 21 he moved over at a certain point. Just don't 22 hold me to it. Bruce, I remember. I</p>	<p>1 engineering, but the clinical science. That 2 was one of the goals.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Okay. And, obviously, you want -- 5 these are devices, a lot of times, that are 6 going to be used by doctors. So you want a 7 more clinical input?</p> <p>8 MS. STOKES: Objection. Form.</p> <p>9 Assumes facts.</p> <p>10 THE WITNESS: These are devices 11 that -- you have to understand, when the act 12 was enacted in '76, all implantables were 13 classified as Class III.</p> <p>14 I mean, the real answer is not 15 what -- they're going to be used by doctors. 16 They're going to be put in the human body, and 17 they're there permanently.</p> <p>18 And, in some ways, drugs are easy, 19 right? You take a drug. I take it for two 20 weeks. It has a half-life of 6 hours to 12 21 hours. It's in. It's out. It's gone. It has 22 its effect. An implantable is there for the</p>

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1 duration. 2 BY MR. JESSEE: 3 Q. Sure. And part of what you did 4 while you were commissioner was move doctors 5 over from the drug division to the device 6 division so they could be consulted with on 7 submissions that come in, right? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: The real goal was not 10 just consultation. The real goal was trying, 11 right? I mean -- and this has been an effort 12 over the last -- I mean, to the point of the 13 Institute of Medicine, I guess, Sheila Burke, 14 right, the criticism of the 510(k) process? 15 It didn't have that kind of 16 clinical -- the clinical studies, for the most 17 part, the vast majority, are not there. 18 BY MR. JESSEE: 19 Q. Right. I'm focusing on the 20 reviewers though. In fact, in some of the 21 510Ks you reviewed as part of this case, you 22 understand that they -- a physician was brought	Page 82 1 there's so many, if you could hand me the 2 510(k), we can determine that by who signed the 3 510(k). I just don't remember that. 4 BY MR. JESSEE: 5 Q. We'll go through it. 6 And, just as we're sitting here 7 right now, do you recall if any physicians were 8 brought in? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: I'd have to go back 11 and see. I mean, I have the 510Ks, and I'm 12 happy to pull them up. And I can tell you in a 13 couple of minutes, if you'd like, who signed 14 what and who was brought in. I just don't have 15 that sitting here. I'm happy to get you the 16 answer. 17 BY MR. JESSEE: 18 Q. No. That's fair. I'll show it to 19 you. We can walk through those here in a 20 little bit. 21 A. Correct. 22 Q. And, Doctor, I want to ask you
1 in to consult on in their view of the 510(k), 2 right? 3 MS. STOKES: Objection. Form. 4 Assumes facts. 5 THE WITNESS: Well, I'm a physician. 6 So some of the views that I was done -- I'm a 7 physician, right? I mean, so, obviously, Dr. 8 Burlington, Susan Alpert, these were 9 physicians. 10 That was relatively new during my 11 tenure and done deliberately. 12 BY MR. JESSEE: 13 Q. And I was actually focusing on the 14 hernia mesh products that we are talking about 15 here in your report. 16 You understand that -- and, with 17 regard to the hernia, there are four products 18 that you discuss in your report -- that there 19 were physicians who were brought in in 20 connection with those reviews? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: But I -- because	Page 83 1 another -- I'll, again, give you the heads-up. 2 This is -- I'm quoting from your prior 3 testimony that said: "But the 510(k) process 4 was, you know, being used, certainly, when I 5 was commissioner for the vast majority of the 6 devices. And I was being asked questions about 7 those devices and their labels all the time." 8 Is that a true and accurate 9 statement? 10 MS. STOKES: Objection. Form. 11 Foundation. 12 THE WITNESS: Again, all the time? 13 You know, I -- obviously, I was asked about 14 other questions some of the time. So it can't 15 be all the -- it depends on what you mean by 16 all the time. I was doing some other stuff all 17 the time. 18 So, I mean, again, if you mean 19 pretty often, yes, over the seven years. It 20 was a pretty common event. I don't want to say 21 that I was doing it every moment of every day. 22 BY MR. JESSEE:

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1 Q. Fair. 2 And do you have any specific 3 recollection of mesh devices being cleared or 4 approved while you were commissioner? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: The mesh devices I 7 have -- I mean, I look at this list, and I -- I 8 mean, during my tenure, I don't have any 9 recollection sitting here. None of this -- 10 again, we probably have to formally check with 11 exec sec to see whether there is any -- what is 12 called a golden rod or something, some document 13 that passed my desk, but these were not the 14 devices that I recall being involved. 15 BY MR. JESSEE: 16 Q. Okay. And I completely understand 17 what you are saying, that it's possible there 18 was one document. I'm just wanting to know 19 what your recollection is. 20 A. These do not rise to the level of 21 congressional or public scrutiny in between the 22 six or plus years that I was there.	Page 86	1 relatively straightforward devices, right? 2 They weren't complicated devices 3 that started even by '97, right, putting 4 together of -- or putting polypropylene in the 5 abdominal cavity, right, intraperitoneally? 6 Those things were not done. They 7 were relatively simple mesh devices, to my 8 knowledge, I mean, in general. 9 BY MR. JESSEE: 10 Q. And, Doctor, I'm looking back now at 11 your report. I know we have been going -- 12 talking about your time at the FDA, and I want 13 to focus just for a few minutes on the time 14 after you left the FDA. 15 And, specifically looking at the -- 16 in your qualifications section of your report, 17 you talk about your -- in Paragraph 7 is where 18 I am looking, in case you want to check it out. 19 You talk about you're a senior 20 advisor at TPG Capital, a leading global 21 private equity firm that owns pharmaceutical 22 and biomedical companies?	Page 88
1 Q. Okay. And when you say the 2 congressional or public scrutiny, do you 3 recall, at any point during your time as 4 commissioner, anyone voicing concerns to you 5 about hernia mesh products specifically? 6 MS. STOKES: Objection. Form. 7 THE WITNESS: That's what I mean. I 8 do not -- I mean, there were other devices that 9 certainly did fall into that. You could go 10 Goggle, you know -- I guess, 1990's, we may not 11 have much of a Google record into that record, 12 right? 13 There may be some, but if you did 14 silicon breast implants, you'd find a lot. 15 There was a lot of congressional and public 16 involvement. 17 So you can -- this was a complicated 18 question that the center had, or there was 19 something -- there was some concern that was 20 being picked up that -- and these devices were 21 not of that nature, to the best of my 22 knowledge, in -- from 1990 to -- they were	Page 87	1 A. Correct. 2 Q. And that's a position you've held 3 for, I believe, quite a while? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: Don't hold me -- 6 something -- 2010 or something like that 7 approximately. 8 BY MR. JESSEE: 9 Q. And as a senior advisor, do you have 10 an ownership interest in the TPG Capital? 11 A. No. 12 Q. You listed a number of companies 13 that you've served on the board of as well? 14 A. Correct. 15 Q. And I believe that for -- let me 16 strike that and go through. 17 The ones you list is -- and please 18 correct me if I'm butchering the names, but 19 Aptalis Pharma? 20 A. Aptalis. 21 Q. Aptalis? And that's a 22 pharmaceutical company?	Page 89

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1 A. That was. It was acquired.	1 board at Immucor?
2 Q. Okay. And Tokai Pharmaceuticals?	2 A. The problem is, I don't know
3 A. Also merged, a pharmaceutical of	3 exactly. It's possible. Five, six years. I
4 prostate cancer.	4 don't remember exactly.
5 Q. Stoke Therapeutics? Is that a --	5 Q. Okay. And you note in your report
6 what kind of company is that?	6 here that you have advised companies on the
7 A. It was a very early stage -- I was	7 standards and duties of care within the
8 only on the board for a short period of time.	8 pharmaceutical and medical device industry.
9 It was a sort of gene recombinant therapy,	9 Do you see that?
10 early stage company, more scientific.	10 A. I do.
11 Q. And then you also have listed here	11 Q. So when we are talking specifically
12 Immucor, Inc. And that's a medical device and	12 about the medical device industry and advising
13 biologics company?	13 companies, would that be at Immucor?
14 A. It's a blood banking reagent. It's	14 A. Sure.
15 a company that does testing for blood safety	15 Q. Any other companies?
16 and transplants.	16 A. There may have been other device
17 Q. And that's actually a company, I	17 companies. Nothing, just sitting here, comes
18 know, that's right where -- around where I'm	18 to mind, but at TPG, there may have been other
19 from, Atlanta. It's right around there is	19 questions that have come to me.
20 where they're based, right?	20 Q. Okay. And --
21 A. Norcross.	21 A. In fact, I know there have been
22 Q. One of the suburbs.	22 other questions that have come to me on
Page 91	Page 93
1 And the -- is that the only medical	1 radiologic -- I mean, on other devices. As I
2 device company that you've served on the board	2 sit here, my mind starts connecting, yes.
3 of?	3 There have been other -- other device
4 MS. STOKES: Objection.	4 companies.
5 THE WITNESS: Correct.	5 Q. Would that be more a situation where
6 BY MR. JESSEE:	6 it might be a specific question, where they
7 Q. Okay. When I --	7 come and seek your input on?
8 A. Yes. I think that's correct.	8 MS. STOKES: Objection.
9 Q. All right. And when I say medical	9 THE WITNESS: Set of questions, yes.
10 device company, obviously, they sort of go into	10 BY MR. JESSEE:
11 a little bit of that.	11 Q. And TPG Capital actually has a
12 A. This --	12 number that it owns or --
13 Q. And maybe you can explain it better	13 A. A lot of companies. I mean, there
14 to me. I wouldn't consider them a traditional	14 are many -- I mean, I am only involved in the
15 medical device company.	15 companies, I mean, at a very select basis. I
16 Would that be fair?	16 mean, there are some \$60 billion, I think under
17 MS. STOKES: Objection. Form.	17 investment. Don't hold me exactly to that.
18 THE WITNESS: Well -- so their	18 So there is a broad range of
19 equipment is medical devices, but their	19 companies, but I am not involved across the
20 reagents are biologics.	20 board.
21 BY MR. JESSEE:	21 Q. Right. And there's a number of
22 Q. And how long have you been on the	22 different companies. Is it, typically, smaller

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Page 94 <p>1 medical device and biologics companies, or is 2 it just all over the map? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: Please ask your 5 question. Is what smaller? The ones that TPG 6 owns? The ones I'm involved in? 7 BY MR. JESSEE: 8 Q. The ones that TPG owns. 9 MS. STOKES: Same objection. 10 THE WITNESS: So, I mean, if you 11 think about it, by its very nature, even though 12 \$60 billion sounds -- is a lot of money -- 13 sorry -- you know, a Pfizer that has a worth of 14 60, whatever it is, it is not going to be able 15 to buy the kind of companies that -- you know, 16 the very big, very large companies. 17 So I think -- you know, I am 18 involved in TPG Capital. You may have a 19 company that is worth hundreds of millions of 20 dollars. Maybe there is a billion dollar 21 company plus, but it's not going to be tens of 22 billions of dollars.</p>	Page 96 <p>1 compliance with the FDA laws and requirements"? 2 A. Correct. 3 Q. Can you just tell me a little bit 4 about that position as the quality committee? 5 A. Sure. I want to be careful that -- 6 I just want to be careful here, because counsel 7 for Immucor is not here. So let's -- I'll give 8 you a general sense. 9 Q. Yeah. And I'll stop you. I don't 10 want to know any specifics about any specific 11 products or anything that's not publicly 12 available. Just more a general sense of what 13 your duties are. 14 A. So, again, when one takes over 15 ownership of a company, one picks up -- you 16 know, there are complexities of a company 17 prior. 18 There may be issues that have 19 happened prior that -- quality issues, other 20 things -- I'm just giving general statements, 21 right -- that one has to -- and one going 22 forward on something like blood, you want to</p>
Page 95 <p>1 BY MR. JESSEE: 2 Q. When you -- since we were just 3 looking at it a minute ago or since I have 4 advised companies on the standards of duty of 5 care within the pharmaceutical and medical 6 device industry, when we are talking about 7 the -- let's focus on the medical device 8 industry. 9 When you are advising Immucor on the 10 standards and duties of care for the medical 11 device industry, certainly, a part of that is 12 what the FDA requires, FDA regulations and 13 standards, correct? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: Yes. 16 BY MR. JESSEE: 17 Q. And, in fact, in this next sentence, 18 you note that you're -- you chaired the 19 compliance committee -- or excuse me. 20 Going to the second part of that 21 sentence, you note: "I chair the quality 22 committee of Immucor, which involves ensuring</p>	Page 97 <p>1 be -- so you want to have the highest standards 2 and work toward there. 3 And the reality is, you buy a 4 company, and there may be issues. And you have 5 to address those issues. 6 Q. Okay. Because, I mean, in complying 7 with FDA laws and requirements, that's very 8 important for a medical device company? 9 MS. STOKES: Objection. Form. 10 Argumentative. 11 THE WITNESS: Sure. 12 BY MR. JESSEE: 13 Q. And so you are being brought in as 14 the chair of the quality committee? And is 15 that essentially -- 16 A. No. I was brought in as a board 17 member. 18 Q. And then you eventually became the 19 chair of the quality committee? 20 A. The quality committee is the 21 committee of the board. 22 Q. And the quality committee though --</p>

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<p>1 it's basically sort of -- is it similar to a 2 compliance committee or its compliance with FDA 3 regulations?</p> <p>4 MS. STOKES: Objection.</p> <p>5 THE WITNESS: It has to do with -- 6 but it's more focused on quality.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. And are you regularly consulting 9 with either employees or management at Immucor 10 in that position?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 Vague.</p> <p>13 THE WITNESS: That would be fair.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. So, for example, with regard to 16 regulatory submissions, is that something that, 17 from time to time, you would get consulted 18 with?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: I may, yes.</p> <p>21 Certainly.</p> <p>22 BY MR. JESSEE:</p>	<p>1 here -- with any other companies besides 2 Immucor on any either 510(k)s or premarket PMA 3 applications?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 Compound. Vague.</p> <p>6 THE WITNESS: Yes.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. Which are those?</p> <p>9 A. I'm not sure what's public. And I 10 would want to check with those companies to 11 what -- before I -- I would want to have 12 counsel here, but they would probably be TPG 13 related is my guess.</p> <p>14 Q. And what -- and without identifying 15 a company, just generally, what would your role 16 have been in those instances?</p> <p>17 MS. STOKES: Objection.</p> <p>18 Answer only if you feel that you 19 can.</p> <p>20 THE WITNESS: Generally, they are 21 complex -- complex questions of regulatory -- 22 of what to do.</p>
<p>1 Q. And with respect to any of the -- 2 whether it's inspections or things of that 3 nature by the FDA, would that be something you 4 would be consulted with?</p> <p>5 A. Absolutely. That may be the case.</p> <p>6 Q. And Immucor is -- they have actually 7 submitted a number of 510(k) applications over 8 the years, right?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: A number of -- 11 including -- and PMAs.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. Were you involved in any of the 14 510(k) applications?</p> <p>15 MS. STOKES: Objection. Form.</p> <p>16 THE WITNESS: I have to go back 17 and -- I'd have to refresh my memory, which 18 ones were PMAs and which ones were 510(k)s. I 19 would want to refresh my memory.</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. Is there -- have you consulted with 22 -- we're talking about nonlitigation still</p>	<p>1 BY MR. JESSEE:</p> <p>2 Q. In other words, you are not -- they 3 are not having you write the -- a 510(k) 4 submission or PMA or to -- are they?</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: No. I would not be 7 sitting there, but I would be telling them -- 8 they may be asking me what they should be 9 writing.</p> <p>10 BY MR. JESSEE:</p> <p>11 Q. Okay. And, basically, to get advice 12 on a specific topic?</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: Specific topic, 15 strategy, you know. It's vague, a little 16 vague. There were specific questions -- there 17 were questions that I was asked in different 18 parts of the regulatory process.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. Okay. How many times has that 21 happened outside of Immucor?</p> <p>22 MS. STOKES: Objection. Form.</p>

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<p>1 THE WITNESS: I mean, there is one 2 that happened pretty recently that's on top of 3 my mind. I don't -- I'd have to go back and 4 think. There was certainly one this year -- 5 I'm sorry -- last year, because we are January, 6 one last year.</p> <p>7 My guess is probably, of that kind 8 of nature, maybe one, two a year.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. And the one from last year, was that 11 a PMA or 510(k) device?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 You know, if this is confidential, 14 then don't answer.</p> <p>15 THE WITNESS: He is not asking me 16 what the name of the company is.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. Yeah. No. I am trying to be very 19 careful, Doctor.</p> <p>20 A. And I appreciate that. You are not 21 asking me the name of the company.</p> <p>22 I don't recall specifically. I'd</p>	<p>1 THE WITNESS: Give me -- give me 2 some more facts. So if you -- if you have a 3 question that raises new questions of safety 4 and effectiveness, right.</p> <p>5 Let me give you -- let's be direct. 6 If you -- take here, 1997, Bard Composite 7 Prosthesis, 1997.</p> <p>8 At that stage, I wouldn't want to 9 say always, but, in general, for example, 10 polypropylene was not used intraabdominally. I 11 mean, there may have been some surgeons here or 12 there who used it, but it was not used 13 intraabdominally.</p> <p>14 A company comes and says, Okay. 15 We're going to use the 510(k) process. We had 16 Marlex, and that's polypropylene. And we are 17 going to -- there's Gore-Tex, and that's ePTFE.</p> <p>18 And we're going to put it -- make a 19 device now that has -- where we're going to 20 take that polypropylene, and we're going to 21 market it for intraperitoneal use. And we 22 believe that the ePTFE is going to protect it.</p>
<p>1 have to go back and double-check. I just don't 2 -- I don't have the file in front of me.</p> <p>3 Q. Oh, sure.</p> <p>4 A. I didn't think that's -- I don't -- 5 that's not what I focused on to prepare here.</p> <p>6 Q. Understandable. And, again, you 7 know, I am just trying to -- I want the best of 8 your recollection.</p> <p>9 A. Sure.</p> <p>10 Q. It's definitely not a memory test 11 here.</p> <p>12 A. Sure.</p> <p>13 Q. You are not critical of a company 14 that decides to use the 510(k) regulatory 15 pathway to bring a device to market, are you?</p> <p>16 MS. STOKES: Objection. Form.</p> <p>17 Vague. Argumentative.</p> <p>18 THE WITNESS: The answer probably to 19 your question is, it depends.</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. What does it depend on?</p> <p>22 MS. STOKES: Same objections.</p>	<p>1 And when you look at the 510(k), the 2 question is, Are there new safety 3 characteristics to that device? And they say, 4 Well, it's just Marlex, and it's just Gore-Tex. 5 We'll just put those things together.</p> <p>6 I mean, that raises new safety and 7 effectiveness -- new safety and effectiveness 8 characteristics. And it's going where no one 9 else went before, and it didn't get human 10 trials and yet went through 510(k).</p> <p>11 So I would be critical of that, 12 because it would put patients at risk without 13 the kind of studies that should be done when 14 you do something new and you push the field.</p> <p>15 So if you rely on something being 16 the same, which is substantial equivalence, but 17 if you take that device, for example, and you 18 look at the marketing for that device and it 19 says, Bard, you know, this device is the first 20 prosthesis to directly address that concern with 21 something new, how could it be substantially 22 equivalent?</p>

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1 So I would be critical. Substantial 2 equivalence should be used for something that 3 is the same. It doesn't raise new questions. 4 It's as safe as something on the market. It 5 doesn't raise new questions. 6 If you are saying it's substantially 7 equivalent and then go out to market it as new, 8 I would be critical. 9 BY MR. JESSEE: 10 Q. Okay. There is a lot in that answer 11 there. So let's see if we can unpack it. 12 First, you mentioned that Marlex 13 hadn't been used intraabdominally. I think the 14 example you were giving was the composite mesh 15 when it was cleared in 1997 right after -- a 16 couple months after you left your position? 17 A. In August. Correct. 18 MS. STOKES: I'm going to object. 19 It misstates. 20 Go ahead. 21 THE WITNESS: The date was in 22 August. I was not there.	1 use it. You shouldn't use it. 2 Now, whether some surgeons used it 3 here or there, but the general position was 4 that you didn't use it for intraperitoneal use, 5 because it was known that it could cause 6 adhesions. 7 Exactly when in the history that was 8 known, I'm not sure, but, certainly, throughout 9 the 1990's, the reason for this Composix device 10 was, we need -- here -- Bard is basically 11 saying, We're going to give you something 12 unique that is new that is going to protect 13 that mesh. You don't have to worry about that 14 polypropylene coming in contact with the body. 15 That was what the promotion said. 16 BY MR. JESSEE: 17 Q. Okay. Just so we're clear, when 18 you're saying new, ePTFE obviously is not new, 19 because there are a dozen ePTFE devices at 20 least that were cleared while you were 21 commissioner, right? 22 MS. STOKES: Objection. Form.
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1 BY MR. JESSEE: 2 Q. Yeah. A certain amount of months -- 3 you left early in February, I think you said, 4 2000 -- 5 A. End of February. 6 Q. 1997. 7 A. I'll tell you the day that I left 8 off the camera. 9 Q. What is your understanding of when 10 Marlex mesh was used intraabdominally? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: My sense was, there 13 was a general view -- I would have to go back 14 and tell you -- that it was not to come into 15 contact with the bowel. 16 From the very beginning, there was 17 as this says there was concern that, you know, 18 the may shift, and you did not want it to come 19 in contact with the bowel. 20 And that was the general 21 understanding back in the 1990's. So you 22 didn't use it. And that was -- you couldn't	1 Misstates. Argumentative. 2 Go ahead. 3 THE WITNESS: So ePTFE was not a 4 composite. The issue was not ePTFE coming in 5 contact with the bowel. The issue was 6 polypropylene coming in contact with the bowel. 7 And for this device, it says Bard -- 8 the composite is the first prosthesis to 9 directly address this concern, right? 10 And the composite mesh contains two 11 different clinically proven materials to 12 maximize tissue ingrowth in surrounding wall 13 mitigating the risk of visceral adhesion. 14 BY MR. JESSEE: 15 Q. And can I ask what you are looking 16 at? 17 A. It's part of the 510(k). It's part 18 of the -- 19 Q. And would you mind -- is there a 20 Bates number on that? 21 A. Yes, it is. MPPE 13970570. But 22 it's in the 510(k) application, I believe.

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1 So this is clearly something new, 2 and it's -- I mean, you know, it says the first 3 composite mesh prosthesis, and it's uniquely 4 designed. 5 So why is that going through a 6 510(k)? 7 Q. And so this was in -- what you are 8 reading from is in the 510(k) submission. 9 Are you critical of the FDA 10 reviewers of that 510(k) submission? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I am not here to 13 testify, I mean, I don't think, about FDA. I 14 mean, I think that if you look at the 15 application, the 510(k) application, Bard did 16 not raise this issue of polypropylene coming in 17 contact with the bowel. 18 In the algorithm, it talked about 19 ePTFE being new, right, but this risk of now 20 the polypropylene and that raising the safety 21 questions, that was not addressed by Bard in 22 its application.	Page 110 1 I can't tell you what FDA knew -- 2 what FDA knew exactly about that issue. That 3 issue was not, I mean, raised in any -- with 4 any prominence when I go read the application 5 for this. 6 So, I mean, I think if you want to 7 be critical -- if you want to be critical, you 8 have to -- it's the obligation of the 9 manufacturer to raise these issues and say, 10 Hey, this is unique. This is new. This is the 11 first prosthesis. 12 This raises, right, new safety 13 characteristics that have not been answered 14 before. I mean, that's the real question. 15 I mean, has anyone really studied 16 this new device and -- in humans and answered 17 these questions? And the answer was no. And 18 that clearly should have been done before this 19 device got on the market, because it was 20 unique. It was new. You were adding new 21 risks. 22 There were some animal studies done.
Page 111 1 So is this one where the company 2 didn't bring this to FDA's attention? Should 3 FDA have caught this? Would I have liked FDA 4 to catch this? 5 If you go read that 510(k), it 6 doesn't say that, Hey, these are new -- these 7 are new questions, and this is the first time 8 we are doing this. And this may lead to 9 problems. 10 That's not what -- when you read the 11 application, that's not what it says. 12 BY MR. JESSEE: 13 Q. In looking at your testimony a 14 little while ago, you said that it was commonly 15 known during the 1990's about the 16 polypropylene. 17 If you place it intraabdominally, 18 then you have that risk of adhesion. 19 MS. STOKES: Objection. Form. 20 THE WITNESS: So I think that was 21 fair in the industry, and I think that was fair 22 among hernia -- other surgeons can testify.	Page 113 1 We could discuss those, but there were 2 certainly no human trials done. And that 3 clearly should have been. 4 BY MR. JESSEE: 5 Q. And so going back to my question -- 6 if you can't answer it yes or no, that's fine, 7 but are you critical of the FDA reviewer for 8 that composite 510(k)? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: I think I answered 11 that. I think based on the application of what 12 the company -- based on the fact that the 13 company didn't highlight this and didn't raise 14 these questions with FDA, it's hard to be 15 critical, because the responsibility rests with 16 the company. 17 Would I have liked FDA to catch it 18 and said, Hold it. This is unique. This is 19 new. This raises new characteristics that have 20 not been studied in humans before? Yes, I 21 would have liked FDA to catch that. 22 So is that being critical? I mean,

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1 again, I'm not -- that wasn't one of the 2 questions that I was assigned to ask, but I 3 would have certainly liked FDA to catch it, but 4 it's because your client didn't lay this out to 5 the FDA. The FDA is only going to be as good 6 as what your company lays out. 7 BY MR. JESSEE: 8 Q. And you understand that several of 9 the surgical mesh products on the sheet we 10 looked at that were cleared by your 11 commissioner were -- contained two different 12 mesh materials. 13 MS. STOKES: Objection. Form. 14 Assumes facts. 15 THE WITNESS: Show me which 16 materials they contained. 17 BY MR. JESSEE: 18 Q. Well, for example, let's just 19 look -- we can just look at the titles of them. 20 For example, we see -- I am looking at -- on 21 the second page of the document we have in 22 there.	Page 114 1 have no -- 2 Q. In the application to the FDA? 3 A. In this promotional piece. 4 Q. But you are reading from the 510(k), 5 I thought you said earlier. 6 A. This is a piece in one of the -- one 7 of the fact materials. And FDA raises 8 questions about this and says, You can't make 9 these claims about minimization of adhesion 10 risk. 11 Q. Okay. So FDA -- 12 A. The FDA caught that. 13 Q. All right. So they were aware of 14 that -- they were aware of that issue then when 15 they were reviewing the 510(k), correct? 16 MS. STOKES: Objection. Form. 17 Argumentative. 18 THE WITNESS: You are now asking me 19 to do something that you asked me prior that I 20 said I would not do, but you are asking me for 21 FDA's subjective state of mind and what they 22 knew and what they were aware of.
Page 115 1 A. Yes, sir. 2 MS. STOKES: Just so the record is 3 clear, I just have a running objection on 4 this -- usage of this document period. 5 BY MR. JESSEE: 6 Q. So, Doctor, do you see the -- where 7 it states -- I'm looking at the September 3rd, 8 1996, Gore-Tex dual mesh plus biomaterial with 9 holes? 10 A. Yeah. So as I understand it -- 11 again, give me the 510(k), and we can -- why 12 don't you pull the 510(k) for it and I am happy 13 to discuss it. 14 As I understand this, okay, your 15 device, the Composix, was the first 16 polypropylene plus any PTFE layer. 17 As I understand, Gore-Tex -- and, 18 again, you would have to give me the 510(k), 19 but the Gore-Tex were different layers of 20 ePTFE. 21 Your company says this is the first 22 polypropylene ePTFE in this document. Then I	Page 115 1 I can show you objectively that this 2 was -- this was one of the pieces of paper in 3 that application, and FDA objected to this, but 4 what it focused on here was that you can't say 5 minimize the risk of adhesion -- adherence to 6 the bowel. That would be improper. 7 BY MR. JESSEE: 8 Q. And I understand you are not 9 offering opinions on the FDA's state of mind or 10 knowledge. 11 A. Thank you. 12 MS. STOKES: Is there a question? 13 BY MR. JESSEE: 14 Q. And you are not offering opinions 15 about Bard's state of mind or knowledge, are 16 you? 17 A. Correct. 18 MR. JESSEE: And, Doctor, we have 19 been going for an hour and a half. I am happy 20 to keep pushing on, or if you want to take a 21 break, we can do that as well. 22 Anyone?

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1 THE REPORTER: A break is good.	1 And what I marked as Exhibit 8 is
2 MR. JESSEE: All right. Let's take	2 the --
3 just a couple minutes.	3 A. May I stand?
4 THE VIDEOGRAPHER: We are going off	4 Q. Please, please. And, like I said,
5 the record. This is the end of Media Unit No.	5 don't feel -- no need to ask me. You are
6 1.	6 welcome to stand whenever you'd like.
7 The time is 9:32.	7 A. May I get untangled?
8 (A short recess was taken.)	8 Q. Yeah. Let me see if I can help you
9 (Deposition Exhibit 8 was marked for	9 here.
10 identification.)	10 And I have marked as Exhibit 8 a
11 (Deposition Exhibit 9 was marked for	11 document that has a tag on the front that says
12 identification.)	12 "3DMax"?
13 (Deposition Exhibit 10 was marked	13 A. Correct.
14 for identification.)	14 Q. And is it -- so did you create this
15 (Deposition Exhibit 11 was marked	15 entire document?
16 for identification.)	16 A. Yes.
17 (Deposition Exhibit 12 was marked	17 Q. And that includes the cover page
18 for identification.)	18 that lists numbers on it?
19 (Deposition Exhibit 13 was marked	19 A. No. I dictated this. This was
20 for identification.)	20 done -- somebody typed it, but I dictated -- I
21 (Deposition Exhibit 14 was marked	21 said -- I said exactly what these words are.
22 for identification.)	22 Q. And who actually typed it up?
Page 119	Page 121
1 (Deposition Exhibit 15 was marked	1 A. Gerard, at my request, but I said,
2 for identification.)	2 No. 1, this. I just -- I had someone type it.
3 (Deposition Exhibit 16 was marked	3 Q. And so that's someone from
4 for identification.)	4 plaintiffs' counsel --
5 (Deposition Exhibit 17 was marked	5 A. Yes, I actually did the typing, but
6 for identification.)	6 this is my -- I dictated this.
7 THE VIDEOGRAPHER: We are going back	7 Q. What about the cutting and pasting?
8 on the record. This is the start of Media Unit	8 All you?
9 No. 2.	9 A. Yes. I mean, I'm not saying they
10 The time is 9:49.	10 didn't use some scotch tape here or there to --
11 BY MR. JESSEE:	11 Q. Make sure it stays there?
12 Q. Dr. Kessler, during the break, we've	12 A. Yeah. Exactly. That kind of stuff.
13 had some discussions, and we've been discussing	13 They did help me on that.
14 with your counsel how we're going to deal with	14 Q. Did you determine what you cut out
15 the numerous different large paper documents	15 within there?
16 you brought.	16 A. Oh, yeah.
17 And we're going to continue to	17 Q. And is all that -- there's
18 figure that out at the next break, but I want	18 handwriting, and this is on a number of -- is
19 to just -- I've marked them as exhibits.	19 that all your handwriting?
20 So I just want to briefly -- if you	20 A. We'd have to go through every page.
21 could confirm for me that we're -- I have them	21 I don't want to swear, but this is certainly my
22 correct and what we're talking about.	22 handwriting.

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1	Q. So we have Exhibit 8, the 3DMax.	1	Q. So were those binders created after
2	Exhibit 9 is the Quintiles?	2	your report was finished?
3	A. Correct.	3	A. Yes.
4	Yes. Exhibit 9 is Quintiles. Yes,	4	Q. As far as --
5	sir.	5	A. And you should have all those
6	Q. Exhibit 10 is going to be large	6	documents, because -- I mean, if you want
7	Ventralex buckling?	7	7 copies, you -- but you already have everything
8	A. Yes.	8	8 there.
9	Q. Exhibit 11 is PerFix Plug?	9	Q. Right. And in those -- and just --
10	A. Yes.	10	I just took a very quick look.
11	Q. Exhibit 12 is Ventalight ST?	11	And feel free to sit down, Doctor.
12	A. Yes, sir.	12	You didn't think you would probably be getting
13	Q. Exhibit 13 is MSDS?	13	this much exercise during your deposition.
14	A. Yes, sir.	14	A. That's fine. Here is some exhibit
15	Q. Exhibit 14 is infection?	15	15 tabs.
16	A. Ventralex infection.	16	Q. I notice that there is some
17	Q. Excuse me. Yeah. Thank you.	17	highlighting and flags in those binders?
18	Ventralex infection?	18	A. Yes. So that matches -- I said if
19	A. Yes.	19	there's a quote that is quoted, that is the
20	Q. Exhibit 15 is Ventralex ST?	20	20 page -- that flag identifies where that quote
21	A. Yes, sir.	21	21 is.
22	Q. And then Exhibit 16 is the one	22	Q. Right. And the flag -- my question
	Page 123		Page 125
1	that's titled "All devices"?	1	is, the flags and the highlighting, is that all
2	A. Yeah. They're really -- they're	2	your doing, or is that counsel's?
3	just studies, just so we understand.	3	A. So I identified the quote, but they
4	Q. And then Exhibit 17 is just these	4	identified where that -- I mean, again, when
5	nine binders that you brought with you?	5	they put the binders together, they highlighted
6	A. It's the first of nine.	6	the quote that was in here.
7	Q. Right.	7	Q. Okay.
8	And is those -- are those binders --	8	A. Again, I don't want to get -- I want
9	I can tell from the cover of them. Those look	9	to be careful on work product rules and what's
10	like something the attorneys sent to you?	10	10 -- I mean, there is no secret here.
11	MS. STOKES: Objection.	11	Q. Yeah. I just want to know -- all I
12	THE WITNESS: Well -- so these were	12	want to know is the timing --
13	done -- all these are, are for each paragraph,	13	A. That just is -- if you ask me
14	what I asked to be made. For every paragraph,	14	Paragraph 22, this quote -- this document says
15	there is -- anything that is cited in that	15	15 this, I can pull that up and turn to the flag,
16	paragraph is behind that tab, and anything that	16	16 and that's the actual document.
17	is quoted in my report may be highlighted.	17	Q. And did you use those binders in
18	So -- but it's -- basically, it	18	18 preparing for your deposition today?
19	matches my report. It's just anything that is	19	A. I think that would be fair.
20	cited in the report. And if there is a	20	Q. Did you review them?
21	specific quote, that quote may be highlighted.	21	A. I didn't turn to every page.
22	BY MR. JESSEE:	22	Q. So more as a resource as you were

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<p>1 going through your report? If you had a 2 question, you could go look at them? 3 A. That's exactly correct. 4 Q. And as far as the large -- I don't 5 know if you have a better description than I 6 have -- the large -- 7 A. Sheets? 8 Q. Yeah. The collage with the 9 different pictures that you made, did you 10 determine what subject each of those would be? 11 A. Absolutely. That is only me. 12 Q. Okay. 13 A. Somebody may have -- again, may have 14 helped me tape or clip or helped me do the 15 index, but I dictated that. That's all me. 16 Q. Is that something you did after your 17 report was written or before? 18 A. I don't remember exactly. I mean, I 19 may have had sheets before. I may have had 20 sheets after this. 21 Q. Was the purpose to -- of making 22 those sheets just to help collect your thoughts</p>	<p>1 Donna B. Tillman raised that issue. She was 2 the FDA -- I assume fair to refer to her as the 3 FDA expert from your side. 4 So she raises that issue, and that's 5 the reason I went to look at the MSDS question, 6 because your FDA expert raised that question. 7 Q. Do you know if we have any other 8 experts that worked at the FDA besides Dr. 9 Tillman? 10 A. That was the -- 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I don't know the 13 answer to that question. That was the one that 14 was identified for -- that was the one that was 15 -- that I knew. 16 BY MR. JESSEE: 17 Q. Okay. Is that the only defense 18 expert that you know in this case? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: I have to go back and 21 look. You can look at my reliance list. That 22 was the one that I focused on.</p>
<p>1 on a particular issue and have a reference 2 or -- 3 A. That's a fair statement. 4 Q. Did you use those in preparing for 5 your deposition today? 6 A. I'm sure you're going to ask me -- 7 to prepare for my deposition? They were done. 8 I mean, what I mean, prepare, I mean, they were 9 part of the process of collective -- everything 10 in my brain. 11 I mean, they do affect what is in my 12 brain in some ways, because when you cut and 13 paste and you focus on certain things and you 14 put it down and you look at it, that certainly 15 helps me prepare, right? So I guess the answer 16 would be yes. 17 Q. On the large sheets that you have 18 there -- and we just walked through the 19 different topics -- one topic that I don't see 20 covered in your expert report is the MSDS or 21 material safety data sheet? 22 A. Correct. As you know, your expert,</p>	<p>1 BY MR. JESSEE: 2 Q. Sure. Why don't we take a quick 3 look at your supplemental revised list that was 4 provided to us and we've marked as Exhibit No. 5 3? 6 A. Correct. 7 Q. And this was a -- is, again, as I 8 mentioned earlier, a reliance list that was 9 provided to us yesterday. 10 And it lists at the end of it a 11 handful of depositions and two expert reports? 12 A. Correct. 13 Q. And the two expert reports listed 14 are expert report of Don B., which -- yeah. 15 It's a typo. 16 A. It's Donna B. 17 Q. Yeah. It's Donna B. -- 18 A. Yeah. I'm sorry. 19 Q. -- Tillman. 20 And I think the date is wrong, but 21 you received -- 22 A. That was my -- in fact, that's the</p>

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1 date of my report, right?	1 BY MR. JESSEE:
2 Q. Exactly.	2 Q. Okay. As far as the other -- while
3 A. So I apologize. I actually have it	3 we have this out, the other documents that are
4 here somewhere.	4 listed on your supplemental reliance list, can
5 Q. Did you -- did you type up this --	5 you -- the produced documents, the first
6 A. No, I did not.	6 section in this document of Exhibit 3, is just
7 Q. Did you dictate it?	7 -- there's a number of Bates numbers listed.
8 A. Yes. Or I gave -- or I gave	8 Do you know what the -- any of these
9 materials. I mean, I may have had materials	9 documents are?
10 and said, Here is materials, etc.	10 A. I'm not -- I'd have to look. I'm
11 Q. And also listed here is the expert	11 sure I -- I'm sure I would know if I looked. I
12 report of John L. Quick?	12 mean because I looked. But I just don't know
13 A. Correct.	13 the -- the Bates numbers. Sorry.
14 Q. And --	14 I -- I -- I don't -- I have access,
15 A. But I had Quick's report. It should	15 and I requested access to the discovery
16 be on my original list. It was -- I had	16 database. And I have continued to search that
17 certainly -- I cited Quick's report in my	17 database. And to the extent that -- you know,
18 report, and I had it, I believe. So it should	18 you always get back hits. I try to be -- to
19 be on my original reliance list.	19 make sure you have a sense of what I've seen or
20 Q. Did you request the report for	20 seen -- think that's relevant or even
21 defendant's FDA experts?	21 considered since my report.
22 A. I don't recall whether I said it	22 Q. Okay. Is -- are these all
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1 that way. I don't remember what I exactly	1 documents, the documents listed in the
2 said.	2 "Produced Documents" section of the
3 Q. Well, did you request any expert	3 supplemental reliance list, documents that you
4 reports?	4 found?
5 MS. STOKES: Objection. Form.	5 MS. STOKES: You're getting
6 THE WITNESS: I certainly requested	6 dangerously close to work product here.
7 Quick, right, on defense side. I may have	7 MR. JESSEE: I'm happy to discuss.
8 asked what came in after my -- I may have	8 MS. STOKES: So --
9 phrased -- the question may have been to	9 MR. JESSEE: I don't think -- I
10 counsel, Tell me what came in that is relevant	10 think it's pretty clear in the rule though
11 to me or to FDA.	11 about what he relied on and what he -- his
12 Don't hold me to the exact question.	12 opinions are based on and the assumptions he
13 And, again, I want to be careful	13 was given, too, are all not work product.
14 under the federal rules. I'm getting very	14 But I -- I -- I hear what you're
15 close --	15 saying. I'll be careful. I'll --
16 MS. STOKES: Yeah, yeah. It's --	16 MS. STOKES: So try to --
17 THE WITNESS: I'm getting very close	17 MR. JESSEE: And you're welcome
18 to what I'm -- I'm having conversations with	18 to --
19 counsel.	19 MS. STOKES: Please, Counsel.
20 But this was -- on my initiation, I	20 MR. JESSEE: Any -- I mean you're
21 asked the question, and I got Dr. Tillman's	21 welcome, if you think I cross a line, to
22 report.	22 instruct him not to answer. But I don't think

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1 I've gone there yet.	1 But I -- but I do sometimes ask for people to
2 THE WITNESS: So -- so they are --	2 do searches and see if you can find me -- "Can
3 the majority of documents -- I mean I do a	3 you find me these animal studies on this
4 great deal of searching myself.	4 device?" Because I -- I see some reference to
5 MR. JESSEE: Uh-huh.	5 them, but I don't see -- I can't find the
6 THE WITNESS: I wouldn't -- would	6 exact -- or I mean this exact study.
7 not want to represent that I find every	7 I would see a reference, for
8 document. I think that would be a mistake.	8 example, on a 510(k) to an animal study. And I
9 But I -- I think I find the vast major -- I	9 said, "Can you try to search for the original
10 mean the vast number of these documents I've	10 study report?" So that's the kind of back and
11 looked at are things that it find on the -- but	11 forth that -- that happens.
12 sometimes I -- my search capabilities are	12 Q. Okay. With the produced documents
13 limited sometimes. And we can get into the	13 listed here, are these all documents then that
14 quality of the database and the quality of the	14 you would have reviewed after you wrote your
15 discovery.	15 expert report?
16 So there are many time -- there were	16 A. You know, again, these tend to be --
17 many times where -- even last night where I	17 one of the problems when you get a lot of
18 said -- I find a document, but I can't find --	18 documents is -- for example, the Quick
19 it's -- it's only a partial document, and where	19 document. I know you pointed to this. But
20 is the rest of the document.	20 Quick I certainly did review, you know, the day
21 So usually these things get	21 of and that section of Quick that I cite in the
22 stimulated by me in some kind of format.	22 reports.
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1 BY MR. JESSEE:	1 So there's a lot of paper. I don't
2 Q. Do you -- can you tell me, in	2 want to say everything is since my report.
3 looking at the supplemental reliance list,	3 Q. Well --
4 which ones that you independently found and	4 A. There may be some overlap here.
5 which ones were provided to you?	5 Q. And -- and I guess my -- I'm
6 MS. STOKES: You know what? I'm	6 focusing right now just on the "Produced
7 going to object and just -- this is -- we're --	7 Documents" section. And I'm just trying to
8 we're too close to work product. So I'm going	8 figure out if these are documents that you --
9 to instruct him --	9 were just not -- accidentally not included on
10 MR. JESSEE: Okay. Are you	10 your original reliance list or if these are
11 instructing him not to answer?	11 documents that you have reviewed since then and
12 MS. STOKES: Yeah.	12 are -- have opinions on.
13 MR. JESSEE: All right. And then we	13 MS. STOKES: Objection. Form.
14 can take this up with the Court. That's fine.	14 BY MR. JESSEE:
15 BY MR. JESSEE:	15 Q. Do you understand what my question
16 Q. The -- Doctor, what the -- the next	16 is?
17 section's published literature, right?	17 A. Yeah. I mean there's a number of
18 A. Again, just so you know, the -- the	18 parts to your questions.
19 -- the vast majority of documents I find myself	19 I'm not sure you should take home
20 --	20 that I have opinions on these, on all these
21 Q. Okay.	21 documents. I -- I don't want you to think
22 A. -- you know, on -- on discovery.	22 that.

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1 I'm just trying to -- you want to -- 2 I think your depo notice asked for -- I mean we 3 can go pull -- basically you're asking for 4 everything that I have. 5 So I'm trying to -- here's what I 6 have. I don't want you to think -- there's 7 nothing here that -- well, the only thing here 8 that -- I don't want to say new opinions. I'll 9 leave that to -- how you raise -- 10 Q. How -- and maybe -- if I could make 11 a suggestion, maybe we could say opinions not 12 in your report that you -- 13 A. Yeah. So -- so -- so -- well -- 14 MS. STOKES: Yeah. I'm going to 15 object to that. 16 THE WITNESS: I mean I'll -- I'll 17 let the other lawyers characterize what's -- 18 because there's opinions, there's subopinions. 19 There's -- this is, you know, what you're 20 asking me about. 21 I mean there's this issue of the 22 MSDS, right? Tillman raised this MSDS, for	1 statement "do not use." So that would 2 certainly be a potential safety hazard that 3 should have been warned about. 4 I disagree with Tillman. Those 5 documents are here. I saw this issue because 6 Tillman raised it. And you should know that 7 I -- you know, that that's -- those are my 8 comments and views on that. 9 And happy -- so I brought those -- I 10 wanted you to have those documents. I brought 11 those documents. And happy to discuss that 12 with you. 13 Q. And, Doctor, we can agree that 14 material safety data sheet's not referenced in 15 your expert report. All right? 16 MS. STOKES: Objection. Form. 17 THE WITNESS: I'd have to go through 18 the entire reliance list. It's -- it's not 19 discussed -- I mean I -- I didn't see the issue 20 -- I didn't see the issue -- I don't see the 21 issue discussed in my report. 22 It came to me -- I didn't discuss
1 example, in her report. I view -- she's the -- 2 I view her as the, you know, defense's -- FDA 3 expert, right? So obviously it was of special 4 interest to me. 5 So I went to study what Tillman 6 raised, right? I disagree with Tillman, for 7 example. 8 BY MR. JESSEE: 9 Q. On the MSDS issue? 10 A. On the MSDS issue, right? I mean -- 11 and when I went to study it, I mean I certainly 12 see that, you know, there was a potential 13 safety hazard in the degradation issues in the 14 Phillips technical file that was linked to the 15 MSDS sheet and that that would -- and that 16 Tillman says FDA only requires studies on the 17 finished product. That's not accurate. 18 Because ISO 10993, Part 18, requires 19 chemical characterization of each component. 20 And that chemical characterization showed -- 21 that chemical characterization showed -- had 22 evidence of oxidative degradation and that	1 the issue in my report. It may be -- have some 2 references that go through the reliance list. 3 So I don't want to -- I'd have to check that. 4 But I -- I became aware of that 5 issue when Defense raised it in that. And I 6 understand there's -- you know, I don't know 7 what the -- I'll leave it to lawyers. 8 I mean I just want to let you know I 9 disagree and view -- I think she's wrong. And 10 I think there's an obligation and 11 responsibility to put potential safety hazards. 12 And there was a potential safety hazard in -- 13 in that technical file about degradation and do 14 not use. And that was not warned about. 15 MR. JESSEE: Right. And -- 16 THE WITNESS: You -- you should know 17 that -- 18 MR. JESSEE: No. And I appreciate 19 you -- 20 THE WITNESS: -- that's the 21 responses to Tillman. And the Court and you 22 can discuss is that rebuttal, is that --

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<p>1 MR. JESSEE: Sure.</p> <p>2 THE WITNESS: And you're -- I want</p> <p>3 you to be able to inquire -- I want you to be</p> <p>4 able to ask me all questions about that. But</p> <p>5 that's how I came to the issue.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Yeah. And I appreciate your candor</p> <p>8 there.</p> <p>9 And what I -- my question, though,</p> <p>10 very narrowly, is you don't offer any opinions</p> <p>11 about the MSDS in your actual expert report</p> <p>12 that was served in this case; is that...</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: No. But I think --</p> <p>15 but -- that would be correct. But I think in</p> <p>16 response to Tillman I certainly have that as an</p> <p>17 opinion.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Have you supplemented your expert</p> <p>20 report?</p> <p>21 A. Just with this -- just with this --</p> <p>22 just with the reliance list --</p>	<p>1 report.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. You list out the issues you were</p> <p>4 asked to look into, right?</p> <p>5 A. Yeah. But you -- you didn't ask the</p> <p>6 -- you -- you didn't ask the question "At what</p> <p>7 point in time did counsel instruct you?"</p> <p>8 So I mean, at that moment --</p> <p>9 Q. And --</p> <p>10 A. -- in time, no. I mean -- so I was</p> <p>11 -- I don't want to get yelled at by my counsel.</p> <p>12 THE WITNESS: And -- but -- just let</p> <p>13 me see if I can be helpful. Okay?</p> <p>14 MS. STOKES: Go ahead.</p> <p>15 THE WITNESS: Okay. So again, I was</p> <p>16 asked certain questions. I responded to those</p> <p>17 questions. I read the report that was</p> <p>18 served -- that -- that criticized me. I</p> <p>19 mean --</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. Well, no. I don't think that's</p> <p>22 fair. That -- that -- it does not -- does the</p>
<p>1 Q. Okay.</p> <p>2 A. -- and the MSDS documents.</p> <p>3 Q. And you actually did an errata sheet</p> <p>4 as well to your expert report, correct?</p> <p>5 A. Yeah. I'm -- I'm happy to put it on</p> <p>6 the errata sheet if you'd like. I mean I just</p> <p>7 want to -- if want me to put -- list this as --</p> <p>8 I mean I'm not sure what the right -- tell me</p> <p>9 what the right way is. Counsel can decide.</p> <p>10 If you want me to supplement now</p> <p>11 and -- I just want to make sure you know I have</p> <p>12 this view in response to Tillman. And this is</p> <p>13 an -- obviously it's an important issue to</p> <p>14 counsel. It was raised by Dr. Tillman. And it</p> <p>15 should have been warned about.</p> <p>16 Q. Okay. And it's not an issue though</p> <p>17 that you were asked to look into by plaintiffs'</p> <p>18 counsel, right?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 I'm going to instruct him not to</p> <p>21 answer.</p> <p>22 MR. JESSEE: Well, this is from his</p>	<p>1 report criticize you, or does it disagree with</p> <p>2 your opinions?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 Is there a question here?</p> <p>5 THE WITNESS: I'm sorry. I don't</p> <p>6 mean to be -- it shouldn't be on me. It -- it</p> <p>7 disagrees with my opinions. But it's the --</p> <p>8 it's the -- I -- it's the report --</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. I -- okay.</p> <p>11 A. It's the --</p> <p>12 Q. I just want to make sure we're on --</p> <p>13 A. -- matching report.</p> <p>14 Q. I want to make sure we're on the</p> <p>15 same page. And -- because --</p> <p>16 A. Yeah.</p> <p>17 Q. You don't criticize Donna B. Tillman</p> <p>18 as a person or her qualifications; you disagree</p> <p>19 with her opinions, right?</p> <p>20 MS. STOKES: Objection. Form.</p> <p>21 Argumentative.</p> <p>22 THE WITNESS: Yeah. That's correct.</p>

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<p>1 I mean I'm -- I'm -- I'm not -- of course. I 2 would not -- that's not what this is about. 3 This is this is about the substance of -- 4 Q. Okay. 5 A. I mean -- 6 Q. I just wanted to make sure we were 7 clear. 8 A. Yeah. No. I don't -- but -- but 9 she raised me in her report, right? 10 Q. Your opinion -- your report and 11 opinions, right? 12 A. She -- she -- my opinions were 13 raised in her report -- 14 Q. Okay. 15 A. -- that I read. 16 Q. Sure. 17 A. She raises the MSDS. I was not 18 asked -- counsel certainly is aware that, 19 because of Donna B. Tillman's report, I -- I 20 looked at the MSDS. So I mean -- and -- and, 21 again, I don't want to relay private 22 conversations.</p>	<p>1 purpose of this deposition. And we might -- 2 we'll see if we get into that topics at all. 3 But -- 4 A. Right. 5 Q. -- just so I know, are there any 6 other issues or opinions you have that are not 7 in your expert report that you've developed 8 since you put the expert report together? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: So let me just say -- 11 MS. STOKES: Mischaracterizes. 12 THE WITNESS: -- I'm happy to sit 13 here during lunch or whatever and ask any -- 14 answer any questions you have on MSDS. I mean 15 I'll -- if -- if you want to -- 16 BY MR. JESSEE: 17 Q. Well, and I know you're -- 18 A. I -- 19 Q. But to be fair, Dr. Kessler, you 20 know, I didn't know about this opinion until I 21 came in here today. And so you know, I didn't 22 get a chance to bring in documents that I would</p>
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<p>1 But it would be fair to assume 2 because -- that -- I -- I don't -- I don't 3 want -- she can -- 4 MS. STOKES: Yeah. I -- 5 THE WITNESS: -- represent what she 6 knows. 7 But what -- what she asked me since 8 then -- she can discuss whether I'm allowed to 9 talk about that. 10 But I do have issues with 11 Dr. Tillman's on MSDS. I have views of the 12 MSDS. I brought these MSDS sheets. I put 13 these here. Feel free to inquire about this. 14 I'm happy to answer everything 15 about -- I think I've told you my views of MSDS 16 and gave you -- 17 MR. JESSEE: Yeah. 18 THE WITNESS: -- a snapshot. And 19 happy to discuss them more. 20 BY MR. JESSEE: 21 Q. And, Doctor, today I want to focus 22 on your expert report. Because that's the</p>	<p>1 want to ask you about when -- you understand 2 what I -- where I'm coming from? 3 A. I -- I -- I -- 4 MS. STOKES: Is there a question? 5 THE WITNESS: I -- I -- 6 MS. STOKES: Objection. 7 THE REPORTER: I need everyone to 8 talk one at a time, please. 9 MR. JESSEE: And -- but I appreciate 10 your offer. Why don't we just say we'll move 11 on, and we can figure it out with the Court if 12 we need be on a -- 13 THE WITNESS: Sure. But -- but, 14 again, you certainly knew that your expert 15 raised this. I mean -- and your expert raised 16 it in the context of -- also of my -- my 17 testimony was in -- my opinions were in her 18 report, and she raised this issue. 19 So I don't think it's a new -- I 20 mean, again, I leave it to you and the lawyers 21 to work out. 22 BY MR. JESSEE:</p>

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<p>1 Q. Do you know if plaintiffs' others 2 expert address MSDS in their reports served on 3 December 4th?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: I -- I'd have --</p> <p>6 MS. STOKES: Assumes facts.</p> <p>7 THE WITNESS: I'd have to go back 8 and look and see whether Quick raised it. I 9 think it was raised in Quick, if my memory 10 serves me right. But I don't want to -- I 11 don't want to testify.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. Okay. And we'll talk about Dr. 14 Quick.</p> <p>15 And you relied on his opinions, in 16 part, in your -- in forming your opinions, 17 correct?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: I think I -- I 20 certainly cite -- I think it's cite -- I cite 21 his opinion. And I think, as long as you 22 include, in part, I mean I'm happy to testify</p>	<p>1 specific section?</p> <p>2 A. So the answer is both, I think would 3 be accurate.</p> <p>4 Q. Okay. And we're talking about the 5 -- and just so we're clear, I'm talking about 6 the time period before your expert report was 7 finalized in December 4th, you had the whole 8 report.</p> <p>9 A. Can I explain?</p> <p>10 Q. Yes, sir.</p> <p>11 A. So a few days -- I had a specific 12 question, I believe, that focused relatively 13 narrowly on a certain issue. And I saw -- I 14 believe I saw that section of the report 15 several days before.</p> <p>16 And then I saw the final report the 17 last day, I believe in the morning, whenever, 18 sometime. So I didn't see the whole report 19 until the end. But I saw the -- the -- that 20 relevant portion I had asked for before because 21 I had to prepare my report.</p> <p>22 Q. Okay. And was that e-mailed to you,</p>
<p>1 independently of Dr. Quick. I don't think I'm 2 dependent on Dr. Quick.</p> <p>3 But I wanted -- you know, there 4 is -- he has certain expertise, and I do cite 5 that.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Well, and the point I was getting at 8 though is that you -- you saw his expert report 9 and cite to it in your expert report.</p> <p>10 So you saw it at some point before 11 you put together your expert report finalized 12 right?</p> <p>13 A. I mean correct. I -- I -- but -- so 14 we can be -- well, again, I don't want to 15 violate Rule 26 here. So I want to be careful 16 of what -- yeah.</p> <p>17 So I -- yes, I did see it. But 18 there's one section of Dr. Quick that I had 19 certain questions about. So there's one -- it 20 shouldn't be all of Dr. Quick.</p> <p>21 Q. Were you provided with all of Dr. 22 Quick's report or just that one -- just one</p>	<p>1 the -- that portion that was before or --</p> <p>2 A. I -- I -- it probably was Webex or 3 something. I saw somehow. I don't recall.</p> <p>4 Q. So going back to the question I 5 asked a little while ago. I just want to make 6 sure I'm being clear here.</p> <p>7 We've talked some about the MSDS, 8 this opinion that's not in your report.</p> <p>9 Are there any other opinions that 10 you've developed since your report, besides the 11 MSDS, that are not in your report?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: Well, it depends. I 14 mean -- so let -- can you re -- rephrase -- can 15 you ask -- the report -- I mean we talk --</p> <p>16 we -- we've been on the record for two hours or 17 so. I mean I've given you certain testimony.</p> <p>18 Is that testimony included in your 19 question?</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. Well, Doctor, you've done a number 22 of expert reports over your career, right?</p>

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1 A. Right. 2 MS. STOKES: Objection. Form. 3 BY MR. JESSEE: 4 Q. And I -- you understand that it's 5 important, in doing an expert report, to be 6 thorough and make sure your -- all your 7 opinions are contained in there, right? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: Correct. But I also 10 understand that I'm here. You're asking me 11 questions. And during that testimony, I may 12 give you certain opinions. There may be -- 13 there may be subopinions or subsubopinions or 14 maybe an observation that relates or a set of 15 facts that relates. 16 So I -- so my goal was to put 17 everything as best I can, right, schedules and 18 every -- and four corners. 19 Had that report -- had you stopped 20 taking that report and said, "We're done," 21 we -- we've been engaged in test -- in -- in 22 questions, I would say that reported reflects	Page 154	Page 156 1 THE WITNESS: I don't think you 2 would take that bait, sir. I mean, if you'd 3 like, you know -- 4 BY MR. JESSEE: 5 Q. Let -- let me ask you a different 6 question that's a little better, I think, maybe 7 so we are on the same page. 8 The -- are there -- have you 9 developed opinions on any topics that are not 10 covered in your expert report since that time 11 other than the MSDS? 12 MS. STOKES: Objection. Form. 13 THE WITNESS: I think we talked 14 about -- I mean we talked about composites this 15 morning, right? 16 BY MR. JESSEE: 17 Q. Is that though -- is that an opinion 18 that you have had previously? 19 A. You asked me -- 20 MS. STOKES: Objection. Form. 21 THE WITNESS: You asked me whether I 22 had criticisms of FDA, right? And we -- you
1 the four corners. 2 Your -- what I would say right now 3 is that my opinions reflect that report and 4 anything we've discussed on the record. 5 BY MR. JESSEE: 6 Q. Okay. Well -- 7 A. And -- and if we stop now, I would 8 say that -- that the four corners are that 9 report and -- and the record you've asked me 10 about. And I won't have any more -- I won't 11 have anything else to say if you stop right 12 now. 13 But if you ask other questions, I 14 may have other opinions or subopinions or 15 characterize them as you want. You know, I'm 16 answering your questions. 17 Q. Are you trying to incentivize me to 18 stop now? Is that what I'm -- what we're 19 getting at? 20 MS. STOKES: Objection. 21 THE WITNESS: I -- I -- I don't -- 22 MR. JESSEE: I'm just kidding.	Page 155	Page 157 1 asked me whether I had -- you asked me whether 2 I would criticize a company for using 3 substantial equivalent. 4 I think that was your question, 5 right? 6 MR. JESSEE: Something like that. 7 THE WITNESS: And I answered that 8 question. 9 Now, is that an opinion? You know, 10 the Court can character -- I mean I answered 11 your question. That is something I -- did I 12 phrase it exactly that way in the report? 13 Probably not. Because there's limitations. 14 But, you know, you could view that -- you view 15 that for what you want. 16 BY MR. JESSEE: 17 Q. Okay. And, Doctor -- and, to your 18 credit, you did an incredibly thorough report, 19 correct? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: There -- there's a -- 22 I -- I appreciate the compliment.

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1 I mean I think the report's pretty 2 focused. Because there are five -- at least 3 five devices. And I try to be pretty focused 4 on there. 5 But, you know, there's no way I 6 could have -- you know, if I were completely 7 thorough, you wouldn't -- you wouldn't have any 8 questions of me. So I couldn't be that 9 thorough. Because I couldn't have answered all 10 your questions in the report.	1 A. Correct. 2 Q. The third issue is whether Bard's 3 marketing of the PerFix Plug and Ventralight 4 devices was misleading? 5 A. Correct. 6 Q. The fourth issue was whether Bard's 7 statement regarding reabsorption of the 8 hydrogel barrier in the Ventralight IFU was 9 misleading? 10 A. Yes. 11 Q. And the fifth issue you were asked 12 to address was whether Bard failed to follow 13 FDA design control requirements for the large 14 Ventralex and PET ring and Ventralex with PDO 15 ring.
11 But it just -- it's the nature of 12 these things. I mean there's things in the -- 13 the schedules, right? I mean the -- the 510(k) 14 predicate charts. I mean there are issues 15 there, for example, we talked about this 16 morning, what things are relied upon. 17 So I mean is everything brought out 18 to the exact same degree of attention? No. 19 You -- you understand. But I'm just trying to 20 answer your question.	16 A. Correct. 17 MS. STOKES: You said "and PET." 18 It's with PET. I'm just... 19 MR. JESSEE: Oh, thank you. Yep. 20 BY MR. JESSEE: 21 Q. The -- this Ventralex with PET ring 22 and Ventralex with PDO ring.
21 BY MR. JESSEE: 22 Q. All right. Let's take a look at	
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1 your report -- 2 A. Sure. 3 Q. -- that was served in this case. 4 And I'm looking at Page 2, Scope of 5 Report. 6 A. Correct. 7 Q. And you list here five issues that 8 you were asked to address in your report? 9 A. Correct. 10 Q. And those issues were -- the first 11 one is the purpose of the 510(k) process, the 12 import of FDA clearance through the 510(k) 13 process, and FDA standards and regulations for 14 the inclusions -- the inclusion -- excuse me -- 15 of warnings on device labeling? 16 A. Yes. 17 Q. That's the first issue you were 18 asked to address? 19 A. Yeah. 20 Q. Second issue was whether Bard 21 admitted certain warnings from the labeling of 22 the PerFix Plug, Ventralex and 3DMax device?	1 A. Sure. 2 Q. Then at the end of your report, you 3 contain -- there's a section that's titled 4 "Conclusion"? 5 A. Yes, sir. 6 Q. And specifically that starts on Page 7 90? 8 A. Yes, sir. 9 Q. And in that conclusion, that's a 10 summary of the opinions that are expressed in 11 your report; is that fair? 12 A. Yeah. They just pull down. It's a 13 -- don't view that as in -- I mean inclusive of 14 everything. You got to read -- read the whole 15 report and testimony. I just try to make it 16 easier. I try to give you some kind of road 17 signs, beginning, middle, end. 18 Q. Right. And -- 19 A. Right. 20 Q. And that's -- it's a -- of the 21 opinions, and obviously it doesn't encompass 22 all of them.

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1 But this is the summary of the big 2 points that you hit in your report, right? 3 A. These are just -- 4 MS. STOKES: Objection. Form. 5 THE WITNESS: These -- these are the 6 -- I'm not sure big point. These are just 7 things that are pulled down I mean to the end 8 to try to give you somewhat a sense of what's 9 in the report. 10 BY MR. JESSEE: 11 Q. Okay. And these address the five 12 topics we -- that you were asked to look at, 13 right? 14 MS. STOKES: Objection. 15 BY MR. JESSEE: 16 Q. That's what's in this Conclusion 17 section? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: What I was asked to 20 look at when the report started, yes. 21 BY MR. JESSEE: 22 Q. All right. And when -- looking back	1 THE WITNESS: I'm sorry. What was 2 the instruction? 3 MR. JESSEE: -- with the -- 4 MS. STOKES: Not to answer. 5 THE WITNESS: Okay. That's an easy 6 instruction. 7 MR. JESSEE: I -- I disagree that 8 this is -- just for the record, and obviously I 9 -- I disagree that this is privileged, 10 especially when we have in his report where 11 it's asked what he was asked to look at. 12 I'm entitled to explore those -- 13 what exactly he was asked to look at. And so 14 we would reserve to -- I'm going to -- plan to 15 raise this issue with the Court. And then we 16 can, if we need to, reconvene. 17 BY MR. JESSEE: 18 Q. The next issue, Doctor, on whether 19 Bard's marketing of the PerFix Plug and 20 Ventralight devices was misleading, were you 21 asked to look at it in any particular ways 22 whether it was misleading?
1 at what you were asked to look at -- and this, 2 again, on Page 2 and 3. 3 A. Sure. 4 Q. And we'll look at specifically on 5 Page 3. It's Paragraph 9B. 6 A. Correct. 7 Q. Were you asked to look at whether 8 Bard admitted any certain warnings in those -- 9 in the PerFix Plug, Ventralex and 3DMax 10 devices? 11 MS. STOKES: I'm going to object to 12 that. 13 I'm going to instruct you not to 14 answer. 15 MR. JESSEE: Okay. 16 BY MR. JESSEE: 17 Q. Were you asked to look at whether 18 the Ventralight ST was -- admitted any warnings 19 from its labeling? 20 MS. STOKES: Same instruction. 21 MR. JESSEE: Okay. I'd just note 22 that I disagree --	1 MS. STOKES: Objection. Form. 2 "Particular ways." But -- 3 THE WITNESS: And I'm not sure I 4 understand the question. 5 But -- but -- but the answer is no. 6 I -- no. I -- there was no -- this -- no. The 7 answer is no to your question. 8 BY MR. JESSEE: 9 Q. Okay. And this report though 10 contains your opinions as to in which ways 11 Bard's marketing of the PerFix Plug and 12 Ventralight was misleading? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: Including my testimony 15 here today. 16 BY MR. JESSEE: 17 Q. Okay. And what about -- going back 18 to that previous point, 9B, have you included 19 in your report all the ways you believe that 20 Bard admitted warning -- all the warnings -- 21 let me strike that and start over. 22 Have you included in your report all
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<p>1 of the warnings that you believe Bard omitted 2 from the labeling in the PerFix Plug, Ventralex 3 and 3DMax devices?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: If you include the 6 report and my testimony here today, yes, I've 7 tried to do that.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. With the -- well, I -- and I want to 10 know just about the -- focus just on the 11 report.</p> <p>12 Have you included in your report, as 13 we sit here today, the opinions you have on any 14 warnings that were omitted from the labelling 15 of the PerFix Plug, Ventralex and 3DMax 16 devices?</p> <p>17 MS. STOKES: Objection. Asked and 18 answered.</p> <p>19 THE WITNESS: Well, you'd have to 20 take into account my testimony today. I 21 mean in order --</p> <p>22 BY MR. JESSEE:</p>	<p>1 A. Wait. Can't I just finish my 2 answer?</p> <p>3 MS. STOKES: Yeah. Let him finish.</p> <p>4 MR. JESSEE: Sure.</p> <p>5 THE WITNESS: Right. So Phillips 6 had a -- I guess two things. As I understand 7 it, Phillips had the issue of -- that it had 8 identified of oxidative degradation and had a 9 do-not-use warning in its MSDS.</p> <p>10 So that is a -- and that was on 11 polypropylene. It was -- wasn't the only 12 supplier over Bard's history. But it was one 13 of the suppliers. And that went in -- to best 14 of my knowledge, into these devices.</p> <p>15 And having become aware, through 16 Dr. Tillman, of the MSDS issues, that -- that 17 potential safety hazard of that degradation and 18 therefore do-not-use would rise to that 19 potential safety hazard should have been warned 20 about.</p> <p>21 So that wasn't in my report as such.</p> <p>22 And that's what we talked about earlier this</p>
<p>1 Q. But -- I know. My question though 2 is not about the -- I'm just wanting to know 3 just about the report.</p> <p>4 Have you included -- is there -- in 5 the report, can you show me a page -- is there 6 any other opinion, as we're sitting here right 7 now, this point in time, that's not in here on 8 the warnings?</p> <p>9 A. We -- we discussed --</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 THE WITNESS: We -- we discussed 12 things this morning.</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. About warnings that you think should 15 have been in these -- the labeling for these 16 devices?</p> <p>17 A. Yes. And we -- we just -- we just 18 spent time discussing, for example, the MSDS 19 issue. And Phillips had a -- a -- a warning 20 that said "do not use." And --</p> <p>21 Q. And so you're offering an 22 opinion that --</p>	<p>1 morning.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Which devices -- can we agree that 4 your report is focused primarily -- your 5 opinions in the report and what you were asked 6 to look at were focused on four devices: the 7 PerFix Plug, Ventrilight, 3DMax and Ventralex?</p> <p>8 MS. STOKES: Objection. Form.</p> <p>9 Mischaracterizes.</p> <p>10 THE WITNESS: Yeah. So you've got 11 to be a little more specific. There's 12 different versions of Ventralex. Then -- and 13 we're talking about Ventrilight ST. So -- in 14 certain portions. So just -- there's various 15 devices. So the report covers the devices 16 that -- that are covered.</p> <p>17 But obviously those devices are made 18 out of material that Phillips supplied. And 19 whatever warning -- whatever potential safety 20 hazard that that raised, I mean, should 21 obviously be warned about.</p> <p>22 BY MR. JESSEE:</p>

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1 Q. All right. Which of those devices 2 that are referenced on Page 3 were made out of 3 the Phillips Marlex polypropylene material? 4 A. So I have to -- I -- I don't want to 5 testify on supply chain here. Because I think 6 there are two -- two manufacturers over time at 7 least. And the documentation that I saw 8 certainly focused on the 2007, 2008 -- the 9 documents about -- between Phillips and its -- 10 and what was told to Phillips. I saw those 11 documents. And those primarily focused on the 12 2006 to 2008 period. 13 So I'm only aware of -- you know, 14 obviously with devices that were used later. 15 And I'd have to go back and check the actual 16 supply chain. 17 But whichever devices used whatever 18 those warnings were, that's what should attach. 19 Q. Can you name -- tell me one of the 20 devices that's listed on this page of your 21 report that uses Marlex polypropylene? 22 A. What --	1 A. -- that -- that question. 2 So your specific question? 3 Q. Does Ventralight -- 4 A. That's right. 5 Q. -- contain Marlex polypropylene? 6 A. Yeah. Let me just give you exactly 7 the answer to that question. One second. 8 MR. JESSEE: And if it's going to 9 take you a second, it's fine. I might go use 10 -- let's -- let's go off the record for one 11 second, please, and... 12 THE VIDEOGRAPHER: We are going off 13 the record. 14 The time is 10:29. 15 (A short recess was taken.) 16 THE VIDEOGRAPHER: We are going back 17 on the record. 18 The time is 10:33. 19 BY MR. JESSEE: 20 Q. Doctor, before we went off the 21 record for a couple minutes, you were -- I had 22 asked about whether Ventralight contains Marlex
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1 MS. STOKES: Objection. Form. 2 THE WITNESS: Certainly Ventralex -- 3 my understanding was the PerFix and Ventralex. 4 I'd have -- I'd want to double-check 5 some of this. The -- the name changed to -- to 6 Bard Mesh at certain times. And there -- there 7 were different names attached, as you're well 8 aware. 9 BY MR. JESSEE: 10 Q. What about Ventralight; does that 11 contain Marlex polypropylene? 12 A. I -- I -- I can answer that question 13 if you give me a minute. 14 Q. Well, Doctor, why don't we wait, and 15 we'll come back to, and you can look at a break 16 if you want to look into that. 17 A. I have -- I mean that -- that's just 18 -- I mean I -- I'm happy to answer that 19 question. Just give me a minute. And if you 20 don't want me to answer it, that's fine. But 21 I'm happy to answer -- 22 Q. Okay.	1 polypropylene in there. 2 And during that time you've been 3 looking at your computer. 4 And I didn't ask you about this 5 earlier, but what -- what exactly are you 6 looking at on your computer? 7 A. I'm looking at the 510(k). 8 Q. Okay. 9 A. And I'm looking at specifically the 10 510(k) for Ventralight ST. And during break -- 11 there are two 510(k) numbers. So I asked 12 counsel which one. He wasn't sure. But I'm 13 looking at the 510(k) application for 14 Ventralight ST. 15 Q. And do you know what type of 16 polypropylene Ventralight ST uses? 17 A. So I just looked at the materials. 18 And from my -- I can't tell that from the poly 19 -- from the discussion in certain sections of 20 the report. It just uses the word 21 "polypropylene." It doesn't identify the 22 supply chain.

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1 I searched for the word "Marlex." 2 And I did not see the word "Marlex" in here. 3 So we'd have to go back to -- so the answer is 4 I -- I can't determine that from the 5 -- from 5 portions of the 510(k) that I looked at so far. 6 Q. Okay. And as we sit here today 7 right now, you can't -- you don't know whether 8 or not Marlex polypropylene was in the -- 9 A. Not -- I mean I -- 10 MS. STOKES: Objection. Form. 11 THE WITNESS: I'd have to go -- I -- 12 I -- the answer is I -- not off the top of 13 mind. I mean it's not the -- a fact that I -- 14 I may have it in certain sheets. 15 Actually, why don't -- just -- I 16 don't want to waste time. 17 MR. JESSEE: Yeah. 18 THE WITNESS: But I mean I -- if 19 you'd just hand me my Ventralight section 20 behind. Give me one more section -- 21 MS. STOKES: Sure. 22 THE WITNESS: -- and see if I can	1 Q. And same page, on Page 3, where 2 the -- the issues you were asked to look into. 3 A. Yes. 4 Q. The -- on that number -- on 5 Paragraph 9E, you talk about design control 6 requirements for Ventralex with PET ring and 7 Ventralex with PDO ring. And you talk about 8 that in your report. We'll get into that. 9 Did you look at the design control 10 requirements and Bard's compliance with design 11 control compliance -- excuse me -- design 12 control requirements for any of the other 13 devices that you reviewed? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: I'm sure I did. I 16 mean I -- it was -- it's part of the -- I'm 17 sure, in studying this, I -- I certainly looked 18 at the design history files. 19 I'm -- I'm not sure I got to a stage 20 of an opinion on that. 21 BY MR. JESSEE: 22 Q. Okay. Well --
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1 get -- just give me Ventralight. 2 Let me see if I can give you the 3 answer. Again, this has the 510(k). And -- 4 and let's just see if it identifies -- it just 5 uses the word "polypropylene monofilament used" 6 and then a knitted mesh with additional PGA 7 fibers added to the fill in the interlay -- 8 hold on one second. 9 Manufacturer, Bard Shannon. I don't 10 see -- let me make sure, see if there's another 11 sheet. 12 It just says -- give me one more 13 second. It just uses the word "polypropylene." 14 It doesn't -- "polypropylene monofilament" is 15 what's told to FDA -- 16 MS. STOKES: Okay. 17 THE WITNESS: -- in -- in this -- in 18 this part of the 510(k). 19 BY MR. JESSEE: 20 Q. Let's look back at your report, 21 please. 22 A. Sure. Of course.	1 A. But -- but I -- but I certainly 2 looked at -- whenever -- whenever you have a 3 design history file, you didn't always identify 4 it as a design history file. Sometimes they 5 were called technical files. I mean sometimes 6 they were -- you know, in different places. 7 But I -- I certainly looked at the 8 design history files of a range of devices. 9 Q. Right. 10 And my -- my question is not whether 11 you looked at them. 12 But in -- in your report, there's 13 not opinions about the design history files or 14 the design control requirements related to 15 PerFix Plug, Ventralight or 3DMax. 16 Is that fair to say? 17 MS. STOKES: Objection. Form. 18 Mischaracterizes. 19 THE WITNESS: Yeah. We got to look 20 at individual paragraphs. We certainly talk 21 about audit reports, like Quintiles and Post. 22 And they have applicability. And even 483

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<p>1 audits, they have applicability beyond any one 2 device.</p> <p>3 So again, I would use these 4 questions for sort of sign posting, as my 5 editor would -- my late editor, who tragically 6 just died, would say to give you some sense of 7 what I'm doing. But you got to read each 8 paragraph and my testimony here today.</p> <p>9 I wouldn't -- don't -- don't view 10 this as -- as sort of -- you've got to 11 read the whole report, read all the testimony. 12 And that -- that's where you -- don't -- don't 13 just read these as the -- the actual precisely 14 specific thing. It's only addressed in the 15 report. These are -- these are questions, but 16 there's a whole report here, and there's 17 testimony.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Right. And there's conclusions in 20 the report.</p> <p>21 And there's no -- in the Conclusion 22 section of your report, you don't talk at all</p>	<p>1 professor of pediatrics and of epidemiology and 2 biostatistics.</p> <p>3 A. Correct.</p> <p>4 Q. Are you teaching at all in either of 5 those positions?</p> <p>6 A. Yes.</p> <p>7 Q. In which one of those?</p> <p>8 A. I'm teaching in epi.</p> <p>9 Q. And what is that -- what do your 10 teaching duties consist of?</p> <p>11 A. A small group -- I have a upcoming 12 small group on causation, et cetera, 13 epidemiology.</p> <p>14 Q. Okay. And is that -- is it in a 15 classroom setting?</p> <p>16 A. Yeah. Will be. Yeah. It's small 17 group sessions with -- with medical students. 18 Medical school teaching is not exactly what --</p> <p>19 Q. Sure.</p> <p>20 Not quite like law school, right?</p> <p>21 A. No. It's not -- it's -- it's 22 different.</p>
<p>1 about the design controls for PerFix Plug, 2 3DMax or Ventralight.</p> <p>3 A. I -- I -- I --</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: I -- I -- I take that.</p> <p>6 But on -- you know, there may be discussions of 7 design stuff and the -- the -- the Quintiles 8 audit or other things that may be discussed in 9 the body of the report that could have 10 relevance.</p> <p>11 But you're -- you're correct. I 12 tried to -- it tries to focus. But just don't 13 -- read it -- read the report as a whole and 14 the testimony as a whole.</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. Let's switch gears a minute, Doctor. 17 I want to talk about your work at the 18 University of California San Francisco.</p> <p>19 A. Sure.</p> <p>20 Q. And we -- we talked briefly about it 21 earlier, that you were the dean for a period of 22 time; and then since then you've been a</p>	<p>1 Q. The -- in the -- when you're -- and 2 that's something -- have you have been teaching 3 there for a while then?</p> <p>4 A. On -- on and off. You know, there's 5 a faculty of several -- about -- I mean in the 6 thousands. And there's only 150 medical 7 students a year. So there's many more faculty 8 than there are student.</p> <p>9 So at different years and different 10 times, I do different things. Now I'm doing -- 11 you know, I've been -- I've been asked to do 12 the causation and stuff like that and -- and 13 will do that.</p> <p>14 Q. Are -- are you involved at all in 15 any clinical studies that take place at UCSF?</p> <p>16 A. Not --</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 THE WITNESS: Not currently. I was. 19 I was head of the GCRC. So I was principal 20 investigator of everything. I was -- I was the 21 principal investigator of the GCRC through -- 22 certainly through, my guess, what, 2007, 2008.</p>

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1 But -- I -- let me -- let me leave it at that.	1 MR. JESSEE: All right. My -- sorry
2 Q. And that -- that -- okay. Let me	2 about that.
3 withdraw that.	3 BY MR. JESSEE:
4 Are you in -- have -- are you	4 Q. Doctor --
5 involved -- currently involved in any clinical	5 A. Happy to tell you at the break.
6 protocols?	6 Q. All right. Doctor, are you familiar
7 MS. STOKES: Objection. Form.	7 with UCSF's Center For Hernia Repair and
8 THE WITNESS: So I'm involved --	8 Abdominal Wall Reconstruction?
9 only to the extent -- I mean I -- the -- at	9 A. I am not in that department. I may
10 UCSF are you asking?	10 be -- I may be aware of it, but I am not
11 MR. JESSEE: Yes?	11 intimately aware of it.
12 THE WITNESS: Or are you asking on	12 Q. Okay. Do you know who Dr. Hobart
13 company stuff?	13 Harris is, who's the chief of general surgery
14 MR. JESSEE: UCSF.	14 at UCSF Medical Center?
15 THE WITNESS: UCSF I am not. I mean	15 A. Certainly.
16 I am -- I am focused primarily on my research.	16 Q. He's someone you worked with for a
17 I have a book coming out next -- what month is	17 long time?
18 this are we? -- end of March. So I focused on	18 A. I do.
19 my research.	19 MS. STOKES: Objection. Form.
20 BY MR. JESSEE:	20 BY MR. JESSEE:
21 Q. What -- what's that book on, what	21 Q. Have you talked with Dr. Harris
22 topic?	22 about hernia mesh at all?
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1 A. It's --	1 MS. STOKES: Objection. Form.
2 MS. STOKES: Form.	2 Vague.
3 Is that confidential? Can you talk	3 THE WITNESS: No. And I
4 about it?	4 deliberately did not.
5 THE WITNESS: Yeah. He's not going	5 BY MR. JESSEE:
6 to -- he's not --	6 Q. And why is that?
7 MR. JESSEE: If you don't want to,	7 A. Because I -- I wanted to -- I didn't
8 that's fine. May --	8 think it would be appropriate. I wanted to
9 THE WITNESS: I mean I'm happy to --	9 stay with the record that was before me. And I
10 to break and --	10 didn't want to go extra -- outside of that
11 MR. JESSEE: That sounds good.	11 record. I mean I could, but I did not.
12 That's fine.	12 Q. With Dr. Harris, is he -- he's
13 THE WITNESS: And -- and -- and --	13 someone who you've interacted with during your
14 MR. JESSEE: I -- I didn't mean --	14 time at UCSF?
15 THE WITNESS: And -- and -- and --	15 A. Yes.
16 MR. JESSEE: -- to ask you --	16 MS. STOKES: Objection. Form.
17 THE WITNESS: And I think I --	17 THE WITNESS: Yeah. Yes.
18 MR. JESSEE: I was just curious.	18 BY MR. JESSEE:
19 THE WITNESS: I probably owe you	19 Q. You're -- you're aware that at UCSF
20 a --	20 they -- the surgeons there like Dr. Harris
21 THE REPORTER: I still need you guys	21 implant hernia mesh to treat hernias, correct?
22 to just one at a time, please.	22 MS. STOKES: Objection. Form.

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1 Assumes facts.	1 looking at this?
2 THE WITNESS: Yeah. I'm -- I'm not	2 MS. STOKES: Objection. Form.
3 going to -- I -- please let Dr. Harris testify	3 THE WITNESS: I -- I -- I --
4 what he does. I -- I can't testify to what Dr.	4 MS. STOKES: Misstates.
5 Harris does.	5 THE WITNESS: -- would not want to
6 MR. JESSEE: Okay. And I'm just --	6 testify who uses what where. It's a very
7 all right.	7 general statement. Even the terms "mesh" is a
8 I'll show you -- we'll go ahead and	8 very general statement. I mean the surgeons
9 mark as an exhibit -- we are now at 18.	9 can testify what they use. And there will be
10 (Deposition Exhibit 18 was marked	10 surgeons that testify. They will testify. I
11 for identification.)	11 can't -- I'm not going to testify what they
12 BY MR. JESSEE:	12 use. You can -- you can ask them questions.
13 Q. Doctor, have you ever looked at the	13 BY MR. JESSEE:
14 UCSF surgery web site?	14 Q. Well, and I -- I can -- I'm -- I'm
15 A. I have.	15 entitled to ask you questions that you -- about
16 Q. Okay. And you see that this is from	16 what your knowledge is.
17 actually the Center For Hernia Repair and	17 And I just want to know do you have
18 Abdominal Wall Reconstruction portion of the	18 knowledge -- do you know whether hernia mesh is
19 web site.	19 used in the majority of hospitals in the
20 MS. STOKES: Just going to object to	20 country?
21 foundation on this document.	21 MS. STOKES: Objection. Form.
22 BY MR. JESSEE:	22 Outside the scope. Calls for speculation.
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1 Q. And, Doctor, you can see at the	1 Go ahead.
2 bottom of the first page of the web site where	2 THE WITNESS: Yeah. So I don't have
3 I got this from, the date.	3 the -- I mean I don't -- I don't have
4 A. I see it.	4 epidemiological data that I reviewed here that
5 Q. This one is -- at the top it says	5 would tell me again -- I -- I -- your
6 "UCSF Department of Surgery."	6 question's so general. What kind of hernia?
7 Do you see that?	7 Where? At what point in time?
8 A. I see that.	8 I've reviewed certain documents.
9 Q. And then it talks about laparoscopic	9 But I don't -- I can't give you the
10 ventral hernia repair?	10 epidemiological data. I don't know the studies
11 A. That's what it says.	11 to tell me which hospitals use what for what
12 Q. And the last sentence of the first	12 purposes at what points in time. I just don't
13 paragraph, when talking about the procedures	13 have that data.
14 performed here, says: "While viewing the	14 BY MR. JESSEE:
15 monitor, the surgeon uses instruments to	15 Q. When you were at Yale as the dean of
16 carefully repair the hernia using synthetic	16 that medical school, were they using synthetic
17 mesh."	17 hernia mesh at that points?
18 A. I see that.	18 MS. STOKES: Objection. Form.
19 Q. Do you see that?	19 Vague. Calls for speculation.
20 And I mean -- so, if I understand	20 Answer if you can.
21 you, you didn't know one way or another whether	21 THE WITNESS: I --
22 hernia mesh was being used at UCSF prior to	22 MR. JESSEE: And I would just --

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1 object to form is fine. The speaking 2 objections -- I've let it go for a while now, 3 but they're completely improper. 4 MS. STOKES: Actually, CMO 22 5 specifically states that we can state the 6 basis. So I would advise you to read the CMOs 7 in this -- 8 MR. JESSEE: And -- and I've read 9 it. And we're -- that's fine. 10 BY MR. JESSEE: 11 Q. Doctor, I -- I don't mean to -- 12 please go ahead. And I'd be happy to re-ask -- 13 A. Yeah. 14 Q. -- too. 15 A. I mean my -- my suggestions are -- 16 my -- my -- my answer is -- I mean I would -- I 17 don't believe I have had -- I can't recall any 18 conversation I have had with my colleagues in 19 the department of surgery at Yale what hernia 20 mesh they had to answer that's question 21 precisely. I don't recall any conversation. 22 Q. Well, and I'm not asking about that	1 Argumentative. Vague. 2 THE WITNESS: So for what device and 3 what point in time? 4 BY MR. JESSEE: 5 Q. Talking -- 6 A. What -- what -- what -- what -- 7 what -- 8 Q. -- currently as we sit -- 9 A. Any hernia mesh, your question -- 10 Q. Synthetic hernia mesh. 11 MS. STOKES: Same objections. 12 THE WITNESS: In -- in any -- any 13 use? Anywhere in the body? In cancer surgery? 14 In hernia surgery? 15 MR. JESSEE: I -- I -- 16 THE WITNESS: Intraabdominal? Just 17 you -- I mean -- 18 BY MR. JESSEE: 19 Q. In -- to repair a hernia anywhere. 20 MS. STOKES: Same objections. 21 BY MR. JESSEE: 22 Q. Do you have criticisms of doctors
1 even what hernia mesh but whether there was 2 hernia mesh in general being used there. 3 A. I -- I -- 4 MS. STOKES: Objection. Form. 5 BY MR. JESSEE: 6 Q. Do you know one way or the other? 7 A. I -- I didn't -- I have not had any 8 specific conversations. So I would be -- that 9 I can recall that answers that question. 10 I mean I certainly am aware that 11 hernia mesh has been used. I -- I -- I 12 recognize that from our -- from the record 13 here. But I don't want to testify what the 14 views are and what they used. They should 15 testify to that, right? 16 Q. You're certainly not critical of 17 surgeons who use hernia mesh to hernia 18 repair -- 19 MS. STOKES: Objection. Form. 20 BY MR. JESSEE: 21 Q. -- hernias, correct? 22 MS. STOKES: Objection. Form.	1 that use synthetic mesh to repair a hernia? 2 MS. STOKES: Same objections. 3 THE WITNESS: I don't -- I didn't 4 come -- it's the almost like your question 5 about FDA to some extent. 6 I'm -- I'm happy to talk to you 7 about the consensus statements on the use of 8 hernia mesh. I've studied those. But I'm not 9 here to level any -- and I think it would be 10 inappropriate to be talking about criticisms of 11 individual doctors or doctors using certain 12 things. 13 I'm happy to talk about the 14 consensus statements and the field in general. 15 BY MR. JESSEE: 16 Q. Do you know what Bard hernia mesh 17 products are used at UCSF Center For Hernia 18 Repair and Abdominal Wall Reconstruction? 19 MS. STOKES: Object to form. Calls 20 for speculation. 21 THE WITNESS: I -- I could go in -- 22 into the record and may be able to find the

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1 ordering, I mean, on the record. But I didn't 2 see any documents in the record that 3 specifically related to that. 4 BY MR. JESSEE: 5 Q. Did you -- 6 A. And -- and -- and I'm not sure 7 that -- again, with all due respect, Counselor, 8 you're -- you're far away from -- I'm happy to 9 talk about the regulation of these devices and 10 the FDA regulation of these devices and the 11 warnings on these devices. But -- and that's 12 why I'm here. 13 If you want to talk about UCSF 14 hernia's department, call them. I mean I -- 15 I'm not -- I've -- I've stayed with the record. 16 And I've tried to stay within the general 17 framework of F -- the interface between 18 regulation and these devices. 19 And you're asking me what individual 20 surgeons are using. I mean I've looked at some 21 of the medical records, I mean, again, in this 22 case, just briefly, just to have some sense of	1 consensus is and where it's moving, happy to 2 discuss that because I've looked at that. 3 The -- at different points in times 4 outside of the regulatory interface between 5 surgery and -- and the regulation, I think it's 6 probably best to let others talk about it in 7 the more abstract sense of what the risks -- 8 what the surgeons -- there will be surgical 9 experts, I believe, who talk about that. 10 BY MR. JESSEE: 11 Q. Okay. So the surgeons will cover 12 those topics? 13 Or -- or -- 14 A. I -- I -- 15 Q. -- do we need to you them today? 16 I'm just trying to -- 17 A. I -- I -- 18 MS. STOKES: Objection. Form. 19 THE WITNESS: I'm happy to talk 20 about -- you know, there certainly is the 21 movement -- if you -- you look at the latest 22 consensus guidelines, the European guidelines,
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1 them. 2 But I don't -- I'm not going to be 3 offering case-specific kinds of stuff. 4 BY MR. JESSEE: 5 Q. Well -- 6 A. That's for the surgeons. 7 Q. And we'll get into those medical 8 records. Because I didn't see those in your 9 reliance list. 10 But the -- as far as -- are you 11 offering opinions on the risks and benefits of 12 hernia surgery? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: No. I -- I -- I think 15 in the -- again, to -- to the extent that 16 there's issues of safety and effectiveness as 17 they meet the definition of -- in the Federal 18 Food, Drug, and Cosmetic Act, I'm happy to deal 19 with that. 20 In some global sense of whether 21 the -- I'm happy to discuss -- so I 22 understand -- and I understand what the general	1 the Hernia Society guidelines, what the role 2 of -- for example, preformed three 3 dimensional -- I mean plug-type -- for example, 4 European Hernia Society doesn't recommend using 5 plug-type, as I understand it. 6 But again, I think the surgeons are 7 probably better off talking about that. But 8 as -- if it interfaces the regulatory context, 9 happy to discuss it. 10 BY MR. JESSEE: 11 Q. Okay. And I'm still just trying to 12 figure out what interfaces the regulatory 13 complex [sic]. 14 So let's look back at this document 15 that I put in front of you. 16 A. Uh-huh. 17 Q. Exhibit No. -- is it 19? 18 A. 18. 19 Q. 18. Thank you. 20 MS. STOKES: It's 18. 21 Same objections with this document. 22 BY MR. JESSEE:

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<p>1 Q. And --</p> <p>2 MS. STOKES: Foundation.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. -- if you look at the section that's</p> <p>5 titled "Potential Complications."</p> <p>6 Do you see that, Doctor, bottom of</p> <p>7 the page?</p> <p>8 A. I do there.</p> <p>9 Q. And it states: "Surgery to repair a</p> <p>10 ventral hernia is generally safe, and</p> <p>11 complications are uncommon."</p> <p>12 You agree or disagree with that</p> <p>13 statement on the UCSF web site?</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 Argumentative. Outside the scope. This</p> <p>16 document is -- lacks foundation.</p> <p>17 Go ahead.</p> <p>18 THE WITNESS: Yeah. I -- I don't</p> <p>19 think it -- that's not -- I mean if the -- I'm</p> <p>20 happy to talk about the IFU and promotional</p> <p>21 materials and -- in the FDA context, in the</p> <p>22 materials that FDA has looked at, I mean, or</p>	<p>1 And to the extent that there should</p> <p>2 be -- as we've talked about the MSDS earlier, I</p> <p>3 mean to the extent that there are warnings in</p> <p>4 there, that -- that would also be related.</p> <p>5 But I'm not talking -- in general,</p> <p>6 again, happy to discuss -- I'm happy to discuss</p> <p>7 the risk-benefits as they relate to the</p> <p>8 regulatory and to -- to those -- to those</p> <p>9 claims.</p> <p>10 So to the extent that -- to the</p> <p>11 extent that Ventralight was used</p> <p>12 intraabdominally, and there is not evidence</p> <p>13 that that claim -- that claim is misleading, I</p> <p>14 think there's concerns about the risk-benefit</p> <p>15 equation without human trial clinical trials</p> <p>16 that shows that it actually lasts for -- I</p> <p>17 mean -- I mean the -- the -- the Sepramesh</p> <p>18 works and the Sepra film coating -- the ST</p> <p>19 coating -- sorry -- for the polypropylene does</p> <p>20 protect.</p> <p>21 Without -- without better human</p> <p>22 trials, I'm not sure that the risks are</p>
<p>1 would be subject to that -- that scope.</p> <p>2 This is -- this is not the IFU or</p> <p>3 the company's promotional materials. So I mean</p> <p>4 that certainly is not a statement that would</p> <p>5 appear in the IFU, or FDA would generally allow</p> <p>6 a statement like that.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. Are you offering an opinion in this</p> <p>9 case that the Ventralight ST risks outweigh its</p> <p>10 benefits?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: So I -- I -- I have a</p> <p>13 very specific opinion on Ventralight and --</p> <p>14 about misleading claims, about the complete</p> <p>15 healing period, right?</p> <p>16 And I think that was miss -- those</p> <p>17 were misleading in the promotion. To make the</p> <p>18 claim that the -- the synthetic polymer, the</p> <p>19 Sepramesh -- the Sepra coating lasts for -- and</p> <p>20 protects for the complete healing period, that</p> <p>21 is a misleading -- that's my opinion on -- on</p> <p>22 Ventralight.</p>	<p>1 acceptable in light of the benefits. And --</p> <p>2 but that's in the FDA regulatory context.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Well, and you just said, "I'm not</p> <p>5 sure that."</p> <p>6 I mean do you have an opinion, as</p> <p>7 you sit here today, that the risks outweigh the</p> <p>8 benefits of the device, or is that a topic that</p> <p>9 you're not opining on?</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 Misstates.</p> <p>12 THE WITNESS: So what I would opine</p> <p>13 on is that, again, going back to -- again, in</p> <p>14 the regulatory context -- let me just check one</p> <p>15 thing, if I can.</p> <p>16 Sorry. Let me just pull it. I</p> <p>17 apologize. Make sure I...</p> <p>18 So to the extent that we're -- we're</p> <p>19 talking about Ventralight ST; is that --</p> <p>20 MR. JESSEE: Uh-huh.</p> <p>21 THE WITNESS: -- fair?</p> <p>22 So the -- to the extent that</p>

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1 Ventralight ST relied upon for its substantial 2 equivalence, right, the Bard Composix, which 3 relied upon Marlex and Gore-Tex --	1 acceptable in light of the benefits, human 2 clinical trials on Ventralight ST were not done 3 that were submitted to the FDA to support, I 4 mean, its marketing. That I am sure of. Okay?
4 THE REPORTER: I'm sorry. A couple 5 of words were missed because there was 6 interference with a cell phone.	5 BY MR. JESSEE:
7 So "which relied upon"?	6 Q. Yeah. And that wasn't my question.
8 Sorry for the interruption.	7 A. Adequate and well control -- no 8 adequate or well-controlled clinical trials 9 that support that Ventralight ST -- that
9 THE WITNESS: -- the -- the Bard 10 Composix and the Marlex Gore-Tex.	10 support the risks are acceptable in light of 11 the benefits.
11 I don't think one could conclude --	12 BY MR. JESSEE:
12 because these are not -- these raise new 13 questions. Without human trials, I don't know 14 how you can get to the market without Ventralex	13 Q. And, again, not my question.
15 ST.	14 2020 is what we're talk about now.
16 And without human trials, I don't 17 know how you can say the risks are acceptable 18 in light of the benefits, because that was 19 never done -- this was approved through 20 substantial equivalence.	15 Have you reviewed the clinical 16 literature on Ventralight ST up to 2020?
21 BY MR. JESSEE:	17 A. I -- I --
22 Q. And I'm talking about, as we sit	18 MS. STOKES: Objection. Form.
	19 THE WITNESS: I have -- I have 20 looked sub -- at a lot of the clinical 21 literature. And I have focused specifically on 22 the --
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1 here today, there's certainly been clinical 2 trials on the Ventralight as -- in here in 3 2020, right?	1 Can -- do me a favor. Could you 2 hand me my Ventralight ST big chart.
4 MS. STOKES: Objection. Form.	3 BY MR. JESSEE:
5 THE WITNESS: Not -- not that's 6 passed S -- FDA muster.	4 Q. Doctor, if you wouldn't mind, I want 5 to make sure I just know what exhibit number 6 we're looking at.
7 BY MR. JESSEE:	7 A. I am happy to do this. So I have 8 here -- this is the Ventralight ST.
8 Q. You don't -- so none of the clinical 9 trials to date here in 2020 have passed FDA 10 muster, is your opinion?	9 MS. STOKES: Exhibit 15.
11 A. So I'm happy to go through the --	10 THE WITNESS: Yeah. This is -- to
12 THE WITNESS: Can you hand me my 13 Ventralight ST.	11 answer your question, this is Exhibit 15, 12 right?
14 BY MR. JESSEE:	13 And I don't -- let me just take a 14 look at this.
15 Q. And so, Doctor, are you --	15 BY MR. JESSEE:
16 A. Sir, just -- just hold -- just --	16 Q. And just so I know, can you just 17 tell me what this table is that you are looking 18 at?
17 let me answer your -- your question. Let me 18 just...	19 A. So these are -- these are studies 20 that are done on Ventralight ST that I see, as 21 referenced in the record -- and let me just go 22 back for a second.
19 MS. STOKES: I'm going to object to 20 the form of the question.	
21 THE WITNESS: Yeah. So -- so human 22 studies that would show safe -- the risk are	

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1 And I see none of these studies in 2 humans that establish risks acceptable, in 3 light of the benefits, that were part of the 4 FDA record.	1 The issues of what do you do once it 2 is on the market and it's been on the market, 3 but it shouldn't be on the market, because it 4 doesn't have a -- obviously, it raised new 5 questions. It was a whole new technology of 6 putting this in the peritoneal cavity.
5 Q. Doctor, is your opinion that the 6 Ventralight ST should be removed from the 7 market?	7 BY MR. JESSEE:
8 MS. STOKES: Objection. Form.	8 Q. And you're talking about the 9 Composix device, right?
9 THE WITNESS: My view is that it was 10 -- that it was approved as substantially 11 equivalent and that that was a -- it is not 12 substantially equivalent in that chain, 13 because, as we talked earlier, the Composix, 14 the Marlex, and the Gore-Tex raised new 15 questions.	10 MS. STOKES: Objection. Form.
16 It was not substantially equivalent. 17 So it got on the market through the substantial 18 equivalence mechanism. It should not have 19 gotten on through that mechanism, and it should 20 have had human trials that support the safety 21 and effectiveness, because it's -- there's no 22 way you can say this doesn't raise new	11 THE WITNESS: No. But I'm -- no. 12 I'm talking about the Composix device -- well, 13 I'm talking about the Composix device, just so 14 there's no -- here we're talking about 15 Ventralight.
16 BY MR. JESSEE:	16 BY MR. JESSEE:
17 Q. Right. So Ventralight's --	17 A. Let me finish.
18 A. Let me finish.	19 Ventralight relied upon, in the 20 predicate chain, Composix. That was key to 21 its -- and Composix dealt with Marlex mesh and 22 Gore-Tex.
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1 questions of safety and effectiveness.	1 And that was never studied. It
2 BY MR. JESSEE:	2 certainly was not studied in humans. There
3 Q. Doctor, I will try it again. 2020, 4 is it -- right now, is it your opinion that 5 they -- the Ventralight ST should be removed 6 from the market, either by the FDA or 7 voluntarily?	3 weren't adequate clinical trials for that.
8 MS. STOKES: Objection. Form.	4 If this doesn't hold, this rest
9 THE WITNESS: I don't see a basis 10 that showed -- I see a major flaw in how this 11 device got on to the market through the 12 substantial equivalence process.	5 doesn't hold.
13 It was not -- it should not -- the 14 reliance on Bard Composix that this relies on 15 for its predicate chain was incorrect. And I 16 don't see a basis for how it's on the market 17 when it raised new safety questions.	6 Q. Doctor, the predicate device for the 7 Ventralight ST is what?
18 It got on the market. We can go 19 back and -- happy to look at that 510(k). I 20 don't see all the issues raised by your 21 company. We discussed whether FDA could have 22 done a better job.	8 MS. STOKES: Objection. Form. 9 Vague.
	10 THE WITNESS: So you have -- you 11 can't answer your question, because you put it 12 as the predicate device. There are multiple 13 predicate devices, and they are all laid out 14 here.
	15 And I'm happy to be corrected. This 16 is the best, you know -- I mean, I could put -- 17 assemble these. You can see there are 18 predicate devices. There are predicate 19 devices, and there's predicate devices.
	20 So you have this whole chain, but 21 this whole chain got started because Bard said, 22 Well, we can't put Marlex in the abdomen, and

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<p>1 we have to find something to protect it. So 2 let's come up with a new way to do that. And 3 we are going to use -- we are going to say to 4 FDA, Well, you take a little of Gore-Tex here, 5 and you take a little of Marlex, right, that 6 are new devices, the same as those, but it's 7 not the same as those, because as the brochure 8 indicated, no one ever put this stuff in the 9 abdominal cavity before.</p> <p>10 BY MR. JESSEE:</p> <p>11 Q. When was the Ventralight ST cleared? 12 Maybe that's one we can get a clear answer on.</p> <p>13 A. Sure. It's in the report.</p> <p>14 MS. STOKES: Object to that --</p> <p>15 THE WITNESS: Hold on a second.</p> <p>16 MS. STOKES: -- side comment.</p> <p>17 THE WITNESS: We will let him make 18 comments. That's fine.</p> <p>19 Take this back. I have the answer 20 right here. Why don't we take these back. 21 Just give me my predicate chain book.</p> <p>22 So the Ventralight ST -- the</p>	<p>1 BY MR. JESSEE: 2 Q. So the information on the FDA web 3 site is misleading in that regard?</p> <p>4 MS. STOKES: Objection. Form. 5 Mischaracterizes. Argumentative.</p> <p>6 THE WITNESS: If you want to 7 understand the predicate device and how it is 8 substantially equivalent to a pre-'76 device, 9 which is what the law requires there are a 10 number of chains.</p> <p>11 And, therefore, if you -- that's 12 what I tried to do. I am happy to take your 13 version of it if you have a different one or 14 Dr. Tillman has one in her report, but it's 15 very common that these are all the predicate 16 devices for the Ventralight ST to take you back 17 to a pre-'76 device.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. How long had the Composix that you 20 were talking about earlier -- that was in 1997, 21 correct, when it was cleared?</p> <p>22 A. Correct.</p>
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<p>1 clearance date was 7-15-2010.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. And what's listed in the 510(k) 4 submission for the Ventralight ST is the 5 Sepramesh IP, several of those 510(k)s, 6 correct?</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 THE WITNESS: I have it in front of 9 me. We can go through and look at all the 10 devices that are listed, but, again, the 11 application can speak for the application.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. And, in fact, you can look at the 14 predicate device on the FDA web site right now 15 for the -- except for the Ventralight ST, can't 16 you?</p> <p>17 A. Right.</p> <p>18 MS. STOKES: Objection.</p> <p>19 THE WITNESS: But the -- but that 20 would be misleading, because you have to look 21 at the predicate device for that predicate 22 device.</p>	<p>1 Q. And the Ventralight, you just said, 2 ST was cleared in 2010?</p> <p>3 A. Correct.</p> <p>4 Q. I think we can agree approximately 5 13 years that the -- these surgical meshes with 6 ePTFE and polypropylene layers have been, at 7 least that amount of time, implanted 8 abdominally?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: Yeah. That's a new 11 device that is not the same -- gone on through 12 the 510(k) process, yes.</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. And how many clinical studies were 15 performed on those devices during that 13-year 16 period?</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 Vague.</p> <p>19 THE WITNESS: I have the record. I 20 can give you the record. It's in the FDA 21 device. And there are other -- if you look at 22 my appendix, you can see other clinical</p>

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<p>1 studies.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Is it your opinion the Ventralight</p> <p>4 ST was not substantially equivalent with the</p> <p>5 Sepramesh IP?</p> <p>6 MS. STOKES: Objection. Form.</p> <p>7 THE WITNESS: That's not my opinion,</p> <p>8 no. That would be -- my opinion would be that</p> <p>9 it would be -- it's not substantially</p> <p>10 equivalent to a pre-amendment device, which is</p> <p>11 the requirement.</p> <p>12 You have to be substantially</p> <p>13 equivalent to a pre-amendment device. There is</p> <p>14 nothing -- there is no pre-amendment device I</p> <p>15 would -- I would tell you that looks like</p> <p>16 Sepramesh Ventralight ST.</p> <p>17 (Deposition Exhibit 19 was marked</p> <p>18 for identification.)</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. I'm going to show you Exhibit 19.</p> <p>21 This is another document from the UCSF web</p> <p>22 site.</p>	<p>1 Vague.</p> <p>2 THE WITNESS: I have no -- I have</p> <p>3 not talked to anyone since I have looked at the</p> <p>4 record and have formed my opinions. I have</p> <p>5 deliberately not done that.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Even before you were hired for</p> <p>8 litigation, have you ever expressed concerns to</p> <p>9 anyone at UCSF about hernia mesh?</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 THE WITNESS: I didn't -- I didn't</p> <p>12 look at the record. I had no basis -- I wasn't</p> <p>13 involved in hernia mesh. I didn't study this.</p> <p>14 I had nothing to do with hernia mesh at UCSF.</p> <p>15 I had no opinions on hernia mesh. I had no</p> <p>16 dealings on hernia mesh before.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. So you had no experience with hernia</p> <p>19 mesh prior to the litigation. And so that's</p> <p>20 when you --</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 Misstates.</p>
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<p>1 Did you know that there is a</p> <p>2 Ventralight ST clinical study going on at UCSF</p> <p>3 right now?</p> <p>4 A. I do not.</p> <p>5 MS. STOKES: I'm going to object to</p> <p>6 foundation and also calls for speculation.</p> <p>7 Form.</p> <p>8 THE WITNESS: I do not know that.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. Have you ever expressed any concerns</p> <p>11 about hernia mesh to anyone at UCSF?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: I certainly would</p> <p>14 encourage studies to be -- I mean, a study like</p> <p>15 this? I am all in favor of studies -- human</p> <p>16 studies. I think that's the way this should</p> <p>17 have been done from the beginning.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. That wasn't my question.</p> <p>20 Have you ever expressed any concerns</p> <p>21 about any hernia mesh to anyone at UCSF?</p> <p>22 MS. STOKES: Objection. Form.</p>	<p>1 THE WITNESS: I didn't study this</p> <p>2 record. I didn't have -- I mean, I was asked</p> <p>3 to study the record and to look at the</p> <p>4 regulatory history, and I have done that.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Have you ever expressed any concern</p> <p>7 about any hernia mesh product with anyone at</p> <p>8 the FDA?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: I have had no</p> <p>11 discussion -- I have had no discussion with</p> <p>12 anyone at the FDA. I have not -- I mean,</p> <p>13 certainly, I had no discussion before, and I</p> <p>14 would not have any discussion now without</p> <p>15 telling -- I deliberately stayed away from</p> <p>16 talking to FDA.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. Have you spoken with anyone, outside</p> <p>19 of your attorneys who hired you, to express</p> <p>20 concern about hernia mesh products in general?</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 THE WITNESS: I have not had any</p>

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<p>1 conversation, outside of -- based on what I 2 have -- what I have learned, with anyone. 3 Are you clearing me to have those 4 discussions, based on the record, or am I under 5 protective order?</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. So, Doctor, do you know anyone who 8 has been implanted with a hernia mesh device?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: I have the medical 11 records. Happy to go through the bellwethers 12 with you.</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. I am not talking about the 15 plaintiffs in this litigation, the six 16 plaintiffs.</p> <p>17 Do you know anyone besides them who 18 has been implanted with a hernia mesh device?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 Vague. Calls for speculation.</p> <p>21 THE WITNESS: Sitting here, I would 22 not -- nothing pops in my head and -- nothing</p>	<p>1 discussions.</p> <p>2 Q. When you say in recent times, have 3 you ever treated an adult patient -- a hernia 4 in an adult patient?</p> <p>5 MS. STOKES: I'm just going to 6 object. First of all, this is outside the 7 scope. And you are getting into confidential 8 information between a patient and a doctor.</p> <p>9 MR. JESSEE: Improper is the main 10 objection.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Doctor?</p> <p>13 A. I don't recall advising anyone being 14 presented with anything in the hernia context 15 on adult. I do have some recollections in the 16 pediatric context, but those were years away.</p> <p>17 And, again, just so -- if I can make 18 your life a little easier, Counselor, I'm happy 19 to -- I'm talking from a regulatory context.</p> <p>20 So when you asked me whether it 21 should be on the market, you noticed I 22 referenced back to whether there was</p>
<p>1 pops in my head.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. As a doctor who treats patients, 4 have you ever advised an adult patient that 5 they should not have their hernia repaired with 6 mesh?</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 THE WITNESS: I have never been 9 asked that question. I mean, it is not 10 something that I, you know -- it is not a 11 clinical question that I have been asked.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. Okay. You don't --</p> <p>14 A. I have never -- I have not -- I 15 certainly have treated -- I mean, there are 16 hernias in the pediatric kind of context all 17 the time.</p> <p>18 Back when I was practicing, the 19 different kinds of hernias, diaphragmatic 20 hernias, et cetera, that I certainly have 21 consulted on, but I have not since -- not in 22 recent times. I have not had those</p>	<p>1 substantial equivalence and whether there were 2 human trials and adequate and well-controlled 3 evidence of -- to support risks and benefits.</p> <p>4 So I did it in the regulatory 5 context. With regard to the clinical use, let 6 the surgeons testify.</p> <p>7 Q. Would it be fair, as to whether a 8 specific device, the risk/benefit analysis for 9 a specific patient, that's something that's 10 outside of what you're offering opinions on?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: Yeah. I don't -- I'm 13 not going to be -- I mean, I asked for -- I 14 have -- I'm not relying on -- I just don't want 15 to, you know -- I want to have some context for 16 what the case is about.</p> <p>17 So, I mean, that's why I know 18 something about, you know, the devices that 19 were used, but I'm not going to be case 20 specific, Counselor. You can ask the surgeons.</p> <p>21 Others will testify.</p> <p>22 Use me in the global sense. I mean,</p>

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Page 222 <p>1 I can -- if you want to ask about an op report 2 in one of the bellwethers, we can discuss it, 3 but that's not where we should be spending my 4 view -- my time.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. I'm trying to just figure out what 7 your -- opinions you're going to offer at trial 8 so I know, but it sounds like though you're not 9 going to offer any opinions on the specific 10 plaintiff.</p> <p>11 A. Correct.</p> <p>12 Q. Right. And you mentioned these 13 medical records. I didn't recall seeing those 14 in your reliance list or in your report, a 15 reference to those.</p> <p>16 And that's just -- so you're not -- 17 it's not relevant to your opinions, those 18 medical records?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: They give me some -- I 21 asked counsel for them just so I have some 22 context, but I'm not -- it would be much</p>	Page 224 <p>1 market?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 Vague.</p> <p>4 THE WITNESS: No. But you've asked 5 me a very vague question. I mean, if you -- 6 you should -- I mean, I think questions like 7 that -- I mean, what kind of hernia mesh, where 8 that hernia mesh, for what plane we are talking 9 about, what kind of surgery we are talking 10 about, that, you know -- certainly, flat -- you 11 know, pari-peritoneal meshes, I have -- I have 12 no issue, pari-peritoneal.</p> <p>13 It's as -- and the original surgical 14 mesh, as you know -- I mean, you know, there 15 were meshes that were approved under my watch, 16 and I don't see an issue.</p> <p>17 It's when these meshes went to 18 different places and different planes and 19 different indications and were new and raised 20 new sets of questions and risks. That's where 21 I become concerned.</p> <p>22 BY MR. JESSEE:</p>
Page 223 <p>1 better -- I mean, if the judge or you ask me a 2 basic -- what's a hernia, I will be happy to 3 answer to the court.</p> <p>4 I mean, if you ask me whether 5 intraperitoneal was used and it's tied to the 6 IFU and what was used over time, I can answer 7 those questions, I mean, as a doc, but whether 8 this -- in this patient, this was the right 9 device, others will testify.</p> <p>10 BY MR. JESSEE:</p> <p>11 Q. Okay. And would it be fair to say 12 others besides you would testify as to whether 13 a specific Bard device caused an injury to a 14 specific plaintiff?</p> <p>15 MS. STOKES: Objection. Form.</p> <p>16 THE WITNESS: Yeah. I think that's 17 right. I don't want to get into causation -- 18 specific causation on a specific patient. 19 Surgeons will testify to that.</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. Do you believe that hernia mesh 22 devices in general should be banned from the</p>	Page 225 <p>1 Q. What specific hernia mesh devices do 2 you think should be banned by the FDA?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: I think any -- again, 5 I have not issued an opinion on that. I'm 6 happy to discuss -- I mean, in general -- in 7 general, if there -- if a hernia mesh device 8 went into -- raised new questions of safety and 9 effectiveness and there weren't adequate human 10 trials to answer those questions, then I don't 11 think those devices should be on the market 12 until those human trials.</p> <p>13 Banning is a much more complicated 14 question, and I have lived that. And, you 15 know, sometimes something is on the market, and 16 you leave it on the market, even though it 17 shouldn't be on the market, because it's been 18 on the market, and it becomes complicated, but 19 that is a whole different story.</p> <p>20 MR. JESSEE: And I will just move to 21 strike after, "I have not issued an opinion on 22 that."</p>

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1 BY MR. JESSEE: 2 Q. Doctor, are you offering any 3 opinions regarding the appropriate way to treat 4 or repair hernias -- 5 MS. STOKES: Objection. Form. 6 BY MR. JESSEE: 7 Q. -- or is that something that the 8 surgeons should talk about? 9 MS. STOKES: Objection. 10 THE WITNESS: Only in the FDA 11 context. So if you want to talk about an 12 indicated use or intended use, I am willing to 13 talk about the intended use and whether that 14 would be appropriate in the regulatory context. 15 What an individual physician, in his 16 or her judgment, decides to do with a legally 17 marketed product, I'm not going to judge, 18 right, but I'm willing to certainly talk about 19 the intended use and the indication for use and 20 the scientific basis in the regulatory record. 21 BY MR. JESSEE: 22 Q. Do you intend to offer any opinions	Page 226 1 Q. The standard of care -- well, you 2 understand, from a physicians -- they have a 3 standard of care that is expected of them in 4 practicing and performing surgery? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: Sure. I mean, I have 7 studied -- I mean, I understand interstate law 8 and common law. I understand what you mean, 9 Counselor. 10 I think that there are certain -- I 11 could conceive of you asking me a question, as 12 it relates to the IFU, that may -- or the 13 regulatory context and confronted with this 14 device approved for this -- I'm sorry -- 15 cleared for this or whatever in the abstract, 16 how does that affect the standard of care, but, 17 in general, unless it's in the FDA -- unless 18 you are asking me a question about the IFU or 19 the labeling or the promotional material, I'm 20 not going to get into that. Just as -- it 21 could about is what I am raising. 22 BY MR. JESSEE:
Page 227 1 on the risks and benefits of nonmesh hernia 2 repair procedures? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: I think that's 5 probably -- I think surgeons who have studied 6 that should testify to that. So the answer 7 would be, I will let others -- again, your 8 questions are so general. 9 I mean, they should be, you know, 10 for intraabdominal, for pari-peritoneal, 11 inguinal. I mean, I think you have to ask 12 those specific questions, but, in general, 13 non -- I'm going to stay to the regulatory 14 interface. 15 BY MR. JESSEE: 16 Q. Would that include not offering any 17 opinions on the standard of care of any of the 18 implanting physicians in these cases? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: Be more specific when 21 you say standard of care. 22 BY MR. JESSEE:	Page 229 1 Q. Are you -- well, then -- so since 2 I'm still not clear on the -- how you are 3 defining and differentiating that, do you have 4 any opinions -- standard of care opinions about 5 the specific implanting physicians in the Johns 6 case? 7 MS. STOKES: Objection. Form. 8 Asked and answered. 9 THE WITNESS: I'm not going to -- as 10 a general basis, unless you ask me something 11 specific about the label or the promotional 12 materials, as it relates to that physician, I'm 13 not going -- I have no opinion. 14 BY MR. JESSEE: 15 Q. Okay. Any standard of care opinions 16 of the implanting physician in the Stinson 17 case? 18 MS. STOKES: Objection. Form. 19 Asked and answered. 20 THE WITNESS: Again, you can take 21 the same answer in each one of those cases. 22 Save your time. I mean, I --

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1 BY MR. JESSEE: 2 Q. I appreciate that. 3 We may have covered this earlier. 4 And if I did, I apologize, but you are not 5 offering legal opinions in this case, correct? 6 A. I can't, and I won't. Now, I am 7 happy to explain to the Court, to the extent 8 the Court would like, the FDA regulatory 9 framework. 10 And as that's based on statute, 11 right, you know, I leave it to the judge, but 12 certainly not on ultimate legal questions. I'm 13 not going to do that. 14 I mean, the ultimate legal 15 questions, but each judge can instruct me how, 16 you know -- can I talk about the statute? I 17 would think so. Can I talk about the 18 appropriateness of conduct under the statute? 19 So those obviously have regulatory 20 -- those are regulatory issues, but ultimate 21 legal question, I would never want to get into. 22 Q. For example, you wouldn't give an	Page 230	1 from. And the judge -- you and the judge will 2 instruct me how -- how far or what I'm allowed 3 to go into in this regulatory construct. I 4 understand that, but some of these have, you 5 know -- they are regulatory questions. 6 Q. You are not offering any opinions on 7 damages. We can agree on that. 8 A. Of course. 9 MS. STOKES: Objection. 10 BY MR. JESSEE: 11 Q. No opinions on the informed consent 12 discussions between any specific plaintiff in 13 this case and his physician? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: I have great 16 expertise. I have served on IRBs. I was in 17 charge of -- if you show me a consent form, I'm 18 happy to, you know, give you an opinion, but I 19 have not specifically looked at -- I'm not 20 intending to do that. I certainly could, but I 21 don't -- I'm not planning to. 22 BY MR. JESSEE:	Page 232
1 opinion on the ultimate legal question on 2 whether Bard is liable to any individual 3 plaintiff, correct? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: Of course not. 6 BY MR. JESSEE: 7 Q. And same thing. You're not going to 8 give an ultimate legal opinion that there is a 9 design defect in a specific product, correct? 10 MS. STOKES: Objection. Form. 11 THE WITNESS: It depends on how the 12 question is viewed. I mean, it depends on how 13 you ask the question exactly, right? 14 So if it's the ultimate legal 15 opinion for the jury, of course not. Whether 16 there were adequate -- whether you followed 17 adequate design controls, that's different than 18 a design defect kind of question. 19 BY MR. JESSEE: 20 Q. Right. Exactly. 21 A. So I think we understand. It's the 22 ultimate question I will certainly stay away	Page 231	1 Q. What is -- I want to look into your 2 prior testimony. I believe it's Appendix B to 3 your report. And so this would be Exhibit No. 4 2, I believe. 5 A. Let me just get my -- 6 Q. And this is -- obviously, I know you 7 have your own copies. 8 A. Hopefully, I have a -- 9 Q. If not, we can -- 10 THE WITNESS: Can you see if there 11 is an appendix? 12 I have my schedules. I have my 13 report. I thought I had a binder on -- 14 actually, hold on a second. Give me one 15 second. It may be in here. I thought I 16 brought that. 17 BY MR. JESSEE: 18 Q. You have it? 19 A. I do, sir. 20 Q. I was looking for it for you. 21 And this is a list of your prior 22 testimony that was served with your expert	Page 233

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<p>1 report.</p> <p>2 Have you reviewed this?</p> <p>3 A. I have. I have compiled it.</p> <p>4 Q. Is there anything that needs to be added to this list of testimony since -- or I will just stop there.</p> <p>7 Anything that needs to be added to this list of testimony right now?</p> <p>9 A. I may have testified -- I have to check dates. I may have testified -- I think this was -- again, there is always a chance something is wrong. Something gets left off by accident.</p> <p>14 I don't want to represent -- I think this is through the date of -- I think this is accurate as it stays here, but there is always a chance that something could get, you know -- I made mistakes before.</p> <p>19 Q. Oh, sure. And I'm not suggesting anything. I'm just asking whether -- to the best of your knowledge, is this accurate, as you look at it?</p>	<p>1 supplemental deposition. There was a short deposition of two hours in Essure. It's possible there was a secondary deposition.</p> <p>4 Q. That's Essure?</p> <p>5 A. That's on here.</p> <p>6 Q. Okay.</p> <p>7 A. It's on here, but I think there was -- there was two more hours. There was some additional materials. There was some additional issues that came up post.</p> <p>11 Q. Okay. I want to walk through the list of prior testimony, certain ones, and I'm going to ask you about them, whether they were personal injury lawsuits involving a medical device or a pharmaceutical?</p> <p>16 A. Sure.</p> <p>17 Q. And so the first one is in regard to Risperdal?</p> <p>19 A. Pharmaceutical.</p> <p>20 Q. And that was a personal injury --</p> <p>21 A. Yes.</p> <p>22 Q. -- case?</p>
<p>1 A. Yes. I think this is accurate, as it -- as it states -- this document states.</p> <p>3 Q. And I understand that you were deposed in the opioid litigation last week, was it?</p> <p>6 A. So this document -- that is what I was just going to -- I just looked at. This document is through November 26, and I believe I was -- the opioid legislation is here, but I was deposed in New York state, AG opioids, I think, a couple weeks ago.</p> <p>12 Q. That was -- was that the last deposition you have given?</p> <p>14 A. Yes, sir.</p> <p>15 Q. Was that in January?</p> <p>16 A. Yes. I believe so.</p> <p>17 Q. Were you deposed at all in December 2019?</p> <p>19 A. I don't have a recollection. I don't -- I don't remember dates. I'm sorry. I can remember so far two weeks back.</p> <p>22 I -- there may have been a</p>	<p>1 A. Well, there is a plaintiff. Let's just define personal injury. Some of these are multiple plaintiffs or whatever. They may have been aggregated cases. I just --</p> <p>5 Q. Right. And my point --</p> <p>6 A. I just want to make sure I understand your question.</p> <p>8 Q. My question -- if you remember back to those tort classes in law school years ago, about whether the plaintiff is alleging an injury against a medical device or pharmaceutical manufacturer.</p> <p>13 A. Yes.</p> <p>14 Q. Okay. And would the same -- would the -- both the Wells v. Allergan and Drake v. Allergan be personal injury cases against a pharmaceutical manufacturer?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: That was Botox. And I think Botox -- it may have been classified as a biologic. We'd have to go take a look.</p> <p>22 It was Botox for seizures. So it</p>

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1 was -- in developmentally disabled kids. So I 2 am not sure how you want to characterize Botox 3 as drug device. I have to go look. 4 BY MR. JESSEE: 5 Q. And for both of those cases, you 6 were an expert for plaintiffs, correct? 7 A. Correct. 8 Q. And for the Risperdal, you were an 9 expert for plaintiffs? 10 A. Correct. The vast majority of 11 these, I will give you, to save you time. 12 There are some defendant cases, but the vast 13 majority are plaintiffs's cases. 14 Q. And would you agree that, in every 15 personal injury case that you have testified, 16 you have testified for plaintiffs? 17 MS. STOKES: Objection. Form. 18 THE WITNESS: No. 19 BY MR. JESSEE: 20 Q. What case -- personal injury case 21 have you given testimony for the defendant 22 manufacturer?	1 Right. 2 Q. Did you ever testify in a deposition 3 in that case? 4 A. I don't think that I got called. 5 I'm not too sure. 6 Q. Did you ever testify at trial? 7 A. I don't believe it went -- I don't 8 believe, no. 9 Q. Any personal injury case where you 10 actually testified at a trial or at a 11 deposition on behalf of the defendant 12 manufacturer? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: A number of cases for 15 defense, but I don't -- I don't think, if my 16 memory serves me right, they were, quote, 17 personal injury cases. There were a number of 18 defense cases, but I don't believe personal 19 injury. 20 BY MR. JESSEE: 21 Q. Okay. So, for example, when we have 22 the pelvic -- C.R. Bard pelvic mesh litigation
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1 MS. STOKES: Objection. Form. 2 THE WITNESS: I think if you look at 3 these endoscopy cases, they're sworn expert 4 statements. Don't hold me to them, but I 5 believe Cordero was for the defense. We'd have 6 to pull it up. 7 BY MR. JESSEE: 8 Q. And I actually did look at that 9 Cordero one. This is a sworn expert statement 10 that we're talking about, not testimony there, 11 right? 12 A. I leave it to -- it says sworn 13 expert. 14 Q. And it's a separate section of 15 your -- 16 A. I just want to make -- yes. 17 Q. And that was actually -- you 18 mentioned Kessler a little earlier. I believe 19 that was where you were asked to -- where you 20 gave a sworn statement, rebutting a statement about what the Kessler rule was? 22 A. For the defense, if I'm correct.	1 involving pelvic mesh, you testified for 2 plaintiffs in that case, right? 3 A. And I was deposed by your colleague. 4 And I did not testify at trial. 5 Q. Okay. And in -- did you rely on any 6 of your documents, files from that litigation 7 in your opinions here? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: I don't -- there 10 are -- the answer is no. I don't think I 11 relied on that. Let me just give you a full 12 answer though. 13 There are -- there are certain 14 discussions of the statute, for example, that I 15 may have used in that matter that I used in 16 other matters that I -- I mean, defining Class 17 II and defining Class III would be applicable. 18 I didn't rely on anything specific 19 to that matter, but I may have -- I mean, if 20 you pulled that report, we may be able to see something, I mean, in that report that matches 22 this in general about device framework.

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1 BY MR. JESSEE: 2 Q. Sure. 3 A. I mean, I don't want to say it's 4 boilerplate, but I think you understand what 5 I -- hoping -- and I would go on record saying, 6 hoping Ms. Cohen was going to depose me -- 7 BY MR. JESSEE: 8 Q. I don't need to hear that. 9 A. Hoping that Ms. Cohen was going to 10 depose me, I did, last night, I will tell you, 11 look -- I only had the rough. I looked at her 12 questions, I mean, in vaginal mesh, and it 13 brought back fond memories. 14 Q. Well, I'm sure she will be glad to 15 hear that, but -- 16 A. So -- but I don't think that's -- 17 that's not relying substantively. 18 Q. And your -- do you keep an active 19 working file from your pelvic mesh? 20 A. I did not. I did -- I did have to 21 search out that deposition again just to 22 refresh, because I was hoping Ms. Cohen was	1 list, SB versus Ortho-McNeil, Janssen Pharma, 2 that would be a pharmaceutical personal injury 3 case? 4 A. Just show me where we are. 5 Q. Right after that pelvic mesh, pelvic 6 repair systems, five down. 7 A. That's Risperdal. 8 Q. And, again, you testified on behalf 9 of plaintiffs? 10 A. Yes. I'm sure I did. 11 Q. And in regard to Yaz and Yasmin? 12 A. Pharmaceutical. 13 Q. You testified on behalf of 14 plaintiffs? 15 A. Correct. 16 Q. In regard to Actos, products 17 liability litigation? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: Show me where. 20 BY MR. JESSEE: 21 Q. It is about halfway down. 22 A. That was a -- Actos was a -- I think
1 going to come and ask me the same questions she 2 asked me last time. 3 Q. I was really focusing more on like 4 as far as corporate documents though. 5 A. No, no, no, no, no. I mean, with 6 the exception of -- no, I don't. The only 7 thing that -- again, just to be upfront, there 8 could be some discussion of medical device 9 regulation history that -- but, again, it 10 probably predates even mesh. 11 So I don't rely on that, but, you 12 know, I want to be consistent on what the 13 framework is, but what happened there is not -- 14 has nothing to do with -- I don't rely on what 15 happened here. 16 Q. You didn't offer, in that pelvic 17 mesh litigation, any opinions on the material 18 safety data sheet, did you? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: I did not. 21 BY MR. JESSEE: 22 Q. Looking back to your prior testimony	1 it was -- it was -- it was -- it was combined 2 MD. It would fit your definition of plaintiff. 3 I believe it -- it's drug. 4 Q. And you testified on behalf of 5 plaintiffs in that case? 6 A. Correct. 7 Q. In the Cabana versus Stryker case in 8 California -- and this is about five further 9 down. 10 A. That -- if my memory serves me 11 right, that's medical device, but it could be 12 medical device biologic, if I'm -- it's an 13 infuse device, if my memory serves me right, 14 which is a combination product, biologic and 15 device. 16 Q. And you testified on behalf of 17 plaintiffs in that? 18 A. I did. 19 Q. And Fosamax is a pharmaceutical 20 litigation? You testified on behalf of 21 plaintiffs? 22 A. Yeah. But that was just on

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1 preemption. That was -- which one is that? 2 That's -- the New Jersey, yes, but that -- in 3 California. That was limited to preemption. 4 Q. It was -- the underlying case was a 5 personal injury -- 6 MS. STOKES: Objection. 7 THE WITNESS: Yeah. But I didn't 8 testify with regard to that liability. It was 9 solely on the question of preemption under the 10 statute. It was a lateral question. 11 BY MR. JESSEE: 12 Q. On that question of preemption that 13 you testified on, you testified on behalf of 14 plaintiffs? 15 A. Correct. 16 Q. In the -- in regard to DePuy 17 Orthopedics, the Pinnacle hip implant 18 litigation, that was a personal injury case 19 that you testified on behalf of plaintiffs? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: Medical device, yes. 22 BY MR. JESSEE:	1 Q. Zoloft litigation, that was a 2 pharmaceutical personal injury case you 3 testified on behalf of plaintiffs? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: Yes. That would be 6 correct. That's drug. It was a consolidated 7 case. 8 BY MR. JESSEE: 9 Q. And the testosterone replacement 10 therapy, products liability litigation, did you 11 testify on behalf of plaintiff in that case? 12 A. I did. And that was device. Well, 13 it's AndroGel. I'm embarrassed to say. I 14 think it probably was AndroGel. I mean, it had 15 components. 16 Q. What about -- 17 A. It was a patch. It was a drug 18 delivery device -- drug delivery system. 19 Q. Any of the next -- were all the 20 next -- the next three cases that are listed 21 here, were they all testifying on behalf of 22 plaintiffs?
1 Q. We have Anders v. Medtronic in 2 Missouri. I'm on the second page now, Doctor. 3 A. I think that's similar to the -- 4 that was another infuse. That was infuse. 5 Q. So medical device on behalf of 6 plaintiffs? 7 A. Medical device biologic, yeah. 8 Q. And in the Austin/C.R. Bard, that 9 was an IVC filter case, I believe; is that 10 correct? 11 A. Correct. 12 Q. And you testified on behalf of the 13 plaintiffs? 14 A. Correct. 15 Q. In the -- in regard to Bard IVC 16 filters products liability litigation, that's 17 another IVC filter litigation, correct? 18 A. Yeah. This was -- this was an 19 aggregated case, yes. 20 Q. And you testified on behalf of the 21 plaintiffs? 22 A. As in Austin, I believe.	1 MS. STOKES: Objection. Form. 2 THE WITNESS: I believe so. Some of 3 these are state AG cases, like the next one. 4 BY MR. JESSEE: 5 Q. Which one is that? 6 A. The State of Texas. So these are -- 7 there are a number of these cases where I have 8 testified. So in the State of Texas, that was 9 for the AG. 10 The People of the State of 11 California, that was the recent -- I guess that 12 was the verdict yesterday on mesh. I testified 13 in that for The People of the State of 14 California. 15 Q. And I know you gave a deposition in 16 that case. Did you also testify live at trial? 17 A. Live at trial in mesh. 18 Q. And the -- 19 A. It was a judge trial. 20 Q. -- Taxotere litigation, that's a 21 case where you testified for plaintiffs both at 22 deposition and trial, correct?

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<p>1 A. Correct.</p> <p>2 Q. And the opioid litigation, we 3 discussed, but that's -- you're testifying on 4 behalf of plaintiffs?</p> <p>5 A. No. I'm testifying -- well, yes.</p> <p>6 So sorry. I'm testifying on behalf of cities 7 and counties.</p> <p>8 Q. In the -- in regard to Essure birth 9 control, that would be -- you are testifying on 10 behalf of plaintiffs?</p> <p>11 A. Correct.</p> <p>12 Q. In all of those cases that we just 13 discussed, where they're personal injury cases 14 and you're testifying on behalf of plaintiffs, 15 have you ever given the opinion that the 16 device, drug, or biologic labeling was 17 adequate?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: I don't believe -- I 20 mean, in some of these cases where that has 21 come up, I have given -- well, in some cases, 22 for example, in the antitrust, I have gone back</p>	<p>1 I'm under oath. I just -- I don't want to 2 misspeak here.</p> <p>3 Did I -- I'm not sure I 4 criticized -- I'd have to go back. Did I 5 criticize the label in the -- what was it? The 6 marketing that I criticized.</p> <p>7 I apologize. I just -- I don't 8 know --</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. That's fine.</p> <p>11 A. -- specifically.</p> <p>12 Q. Are there any other ones beside the 13 opioid litigation, where you are not sure about 14 whether you criticized the label or not?</p> <p>15 MS. STOKES: Objection. Form.</p> <p>16 THE WITNESS: Sure. I know there 17 was -- well, I would want to look at the trial 18 testimony, I think, in some of these program 19 cases, et cetera, Nexium cases. I'd have to go 20 back and take a look.</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. Can we agree that, in the vast</p>
<p>1 and looked.</p> <p>2 And I believe there are -- depending 3 on what section of the label I am looking at, I 4 think I have said I don't have a problem.</p> <p>5 There have been times when I have said I don't 6 have a problem with the label. I recall that.</p> <p>7 Now, whether those were antitrust 8 cases, I'd have to go back exactly, where I 9 have said that, but I don't have problems with 10 every section of the label.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. My focus is on the -- specifically 13 on the personal injury cases, where you 14 testified.</p> <p>15 Have you ever said that the label 16 for the drug, device, or biologic was adequate, 17 and you had no criticisms of it?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 Vague. Compound.</p> <p>20 THE WITNESS: I would want to go 21 back and look. For example, in the New York 22 opioid case that I just testified -- you know,</p>	<p>1 majority of the cases we just discussed though, 2 you did -- you were critical of the label of 3 the drug or device?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: I wouldn't want to 6 make any general -- we'd have to go look at 7 specific -- just because I'm under oath, 8 exactly what I was critical of. It may have 9 been the marketing. It may be the labeling. I 10 just don't want to make any general statements.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Well, can we agree that in each -- 13 and we have the depositions, I think, or 14 transcripts of most of these here, but would 15 you agree that for -- in each of those cases, 16 you were critical of either the labeling or the 17 marketing of the defendant manufacturer?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 Asked and answered. Compound.</p> <p>20 THE WITNESS: Yeah. I mean, I think 21 I'm -- I am under oath. If you want to show me 22 a specific case and we can look at the</p>

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1 deposition and my testimony or the transcript, 2 I would be happy to answer. I just don't want 3 to lump things together. 4 BY MR. JESSEE: 5 Q. Can you tell me a specific -- one of 6 those cases, as we sit here today, where you 7 were not critical of the defendant 8 manufacturer's labeling or marketing? 9 MS. STOKES: Objection. Form. 10 Asked and answered. 11 THE WITNESS: I just said I -- for 12 example, the opioid case. I'd have -- I 13 just -- I mean, I can show you -- I just -- I 14 think -- I don't think I criticized the 15 labeling, but, again, I don't want to be -- I 16 don't want to say that under oath, because I 17 may -- there may have been a question, in ten 18 hours of testimony, where I said something. So 19 I would have to go back and review to be 20 specific. 21 BY MR. JESSEE: 22 Q. Okay. So you can't tell me, as we	1 have been moving around up here. 2 A. Sure. 3 Q. Do you happen to have that handy? 4 A. It's in the pile? 5 Q. It should be. We marked it right at 6 the beginning. So I'd be happy to help you, if 7 you'd like. I think it might be under there 8 probably. 9 A. It should be -- 10 Q. 3, 4, 5. 11 A. There you go. 12 Q. Doctor, this is the invoice that's 13 dated December 10th, 2019? 14 A. Yes. 15 Q. And it says via e-mail, and it lists 16 two attorneys. And one is Parvin. 17 MR. JESSEE: And I apologize, but 18 maybe someone can help me with the last name? 19 MS. AMINOLROAYA: Aminolroaya. 20 MR. JESSEE: Okay. Thank you. 21 BY MR. JESSEE: 22 Q. And Kesley Stokes?
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1 sit here today, without going back and 2 reviewing, that there's a specific case where 3 you testified for plaintiffs and weren't 4 critical of the labeling and marketing? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: I mean, I tend to 7 remember those, but I don't want to swear under 8 oath until I confirm that. I'm happy to do 9 that, sir. 10 BY MR. JESSEE: 11 Q. You are happy to do that? 12 A. I'm happy to go back and look 13 specifically, but I'd have to review the 14 transcript so we can be clear. 15 Q. Okay. 16 A. I just don't want to make a mistake. 17 Q. All right. Well, I'd appreciate 18 that. That would be very helpful. 19 A. Happy to do that. 20 Q. And, Doctor, with the -- I've marked 21 as Exhibit 5 the invoice that was given us 22 today. I know we have a lot of documents that	1 A. The L is silent. 2 Q. What was that? 3 A. The L is silent. 4 Q. Okay. 5 THE WITNESS: Is that fair? 6 MS. STOKES: Sure. 7 MR. JESSEE: I didn't know we would 8 be going into this. 9 BY MR. JESSEE: 10 Q. So these are two of the attorneys 11 for plaintiffs, right? 12 MS. STOKES: Except for the fact you 13 mispronounced my name, but -- 14 MR. JESSEE: Okay. I apologize. 15 THE WITNESS: Did I? 16 MS. STOKES: No, no, no. You 17 didn't. He did. 18 MR. JESSEE: I apologize. 19 MS. STOKES: It's okay. 20 THE WITNESS: Kelsey. 21 MS. STOKES: You said Kesley. 22 It's --

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1	MR. JESSEE: Oh, I did.	1 MS. STOKES: Objection. Form. I
2	MS. STOKES: Yeah.	2 mean --
3	MR. JESSEE: Okay. I actually even	3 THE WITNESS: You're going to make
4	knew that too. I apologize for that. I got	4 these attorneys --
5	thrown off.	5 MS. STOKES: Yeah. I don't think
6	THE WITNESS: I'm the Kessler. You	6 that's --
7	are the Kelsey.	7 THE WITNESS: No, no, no, no. I'm
8	BY MR. JESSEE:	8 happy to answer your question. I have
9	Q. Doctor, this is the invoice that was	9 testified pro bono for the State of California.
10	sent to attorneys for the plaintiffs in this	10 BY MR. JESSEE:
11	litigation, correct?	11 Q. I mean, that's public record too,
12	A. Correct.	12 right? You testified at trial.
13	Q. And I understand though that your	13 A. I was asked the question, and it's
14	wife typically does your invoicing for you?	14 in the transcript. And you have done your
15	A. You read my depositions, or either	15 homework.
16	that a lawyer has told you.	16 Q. But you are not doing that in this
17	Q. I have read plenty of them, yes.	17 case. You are not testifying pro bono in this
18	And that is still the case?	18 case.
19	A. Yes. Exactly.	19 A. No. Unfortunately, one can't do
20	Q. And this looks like -- it says	20 that all the time.
21	December 10th, 2019. Is that -- that's when it	21 Q. And, Doctor, what were the -- you
22	would have been submitted?	22 list here expenses in the amount of a little
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1	A. Correct.	1 over \$5,000.
2	Q. And so it did count for your time up	2 What did those expenses consist of?
3	until that point?	3 A. They were probably travel.
4	A. Correct.	4 Q. Was your -- let me withdraw that and
5	Q. And the amount of this, as we	5 start over.
6	already mentioned, is \$237,264.93?	6 Keep in mind this is dated December
7	A. Correct.	7 10th, 2019.
8	Q. And it notes below that the amount	8 Was your expert report finished at
9	of hours, where it says 232.25 hours --	9 this point in time? In other words, would this
10	A. Correct.	10 amount constitute all the amount you put into
11	Q. -- at \$1,000 per hour?	11 putting together the expert report?
12	A. Correct.	12 MS. STOKES: Objection. Form.
13	Q. And \$1,000 per hour is the typical	13 THE WITNESS: Fair.
14	amount that you charge in serving as an expert	14 BY MR. JESSEE:
15	in litigation?	15 Q. So did you work on the expert
16	MS. STOKES: Objection. Form.	16 report -- and I am just talking about the
17	THE WITNESS: It's been my standard	17 expert report itself -- at any point after this
18	fee for a decade or plus.	18 invoice was submitted?
19	BY MR. JESSEE:	19 A. No. Well, the expert report was
20	Q. There is certain litigations that	20 signed December 4th, right?
21	you have testified in and not charged the party	21 Q. Yes.
22	any money, right?	22 A. So this is December 10th. So, I

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1 mean, the expert report was served on December 2 4th. 3 Q. Okay. So would this -- 4 A. Does that answer your question? 5 Q. Yeah, it does. And maybe I can ask 6 a better one. 7 This accounts for all your time up 8 to December 10? 9 A. Yes. 10 Q. And I know -- I can tell from the -- 11 all the materials that you graciously brought 12 here today and our testimony earlier that you 13 have spent time on this litigation since 14 December 10th, correct? 15 MS. STOKES: Objection. Form. 16 THE WITNESS: Correct. 17 BY MR. JESSEE: 18 Q. How much time have you spent since 19 December 10th? 20 A. I don't know. I don't know exactly. 21 I mean -- I don't know exactly. You could -- 22 do you want me to guess?	1 Q. I think we're still discussing that, 2 but regardless of who's paying you, does it 3 change if I am paying you? 4 A. No, no. I promise you to give you 5 and your colleague the same rate that I give 6 everyone else, except for the State of 7 California. 8 Q. The -- so would it be -- let me 9 strike that. 10 Looking back to some of your older 11 transcripts, I noticed that when Laurie deposed 12 you in pelvic mesh, you were asked -- at that 13 point, you had billed approximately \$400,000 in 14 that litigation? Does that sound about right? 15 MS. STOKES: Objection. Form. Do 16 you have the deposition transcript to show him? 17 THE WITNESS: I'm not going to 18 dispute anything you have read. 19 BY MR. JESSEE: 20 Q. And you read the deposition 21 transcript. 22 A. I didn't get to that part.
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1 Q. Sure. And I won't hold you to it. 2 If you can just give me a rough estimate. 3 A. Again, I have not compiled an 4 invoice. So I'm just -- I mean, lit could be 5 100, 110 hours, but don't hold me to any 6 numbers here. 7 Q. Okay. 8 A. Not including today. 9 Q. Right. 10 And for those 100 to 110 hours, 11 whatever the amount is, and for today, you are 12 being compensated for \$1,000 an hour? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: I will submit an 15 invoice -- 16 BY MR. JESSEE: 17 Q. Okay. 18 A. -- for that. Yes, sir. 19 Q. And I guess the point I was getting 20 at, for your testimony today, it's \$1,000 an hour as well? 22 A. Are you paying me?	1 Q. Okay. 2 A. I had a rough. I will admit I did 3 it -- I mean, I was skimming her questions. So 4 I didn't get -- I didn't see everything. 5 Q. In the IVC filter transcripts I 6 looked at, I saw, at one point, you had billed 7 \$600,000 approximately in that litigation? 8 MS. STOKES: Objection. Form. If 9 you have a document, show him. 10 THE WITNESS: Yeah. I don't 11 remember a bill for -- I mean, again, I don't 12 want to -- I don't remember a bill for 600. 13 I'm not saying, cumulatively, over -- you put 14 multiple bills together. 15 If you put multiple bills, maybe you 16 can get to something. I don't remember a bill 17 for 600,000. That would seem -- but over 18 multiple times and this one, this one, this 19 one, this one, I mean, it certainly could add 20 up. 21 BY MR. JESSEE: 22 Q. The Taxotere trial, which was last

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1 year, right? The Taxotere trial was last year, 2 I believe? 3 A. Yeah. 4 Q. 2019? 5 A. That's right. 6 Q. In the fall? 7 And in that case, you testified that 8 over the course of your litigation work for 9 plaintiffs, you made millions. 10 Do you recall that? 11 A. Yeah. I think the question was 12 millions and millions. I said, one million -- 13 millions is enough, I think, was the testimony. 14 Q. Right. You said -- yeah. That's 15 exactly right. 16 A. I think that was a little bit of a 17 redundant thing, I mean. So yes. I would -- I 18 have made millions -- I have made millions of 19 dollars in litigation. 20 I have made millions of dollars from 21 my books. I have made millions of dollars from 22 my private equity. So yes, I have made million	1 MS. STOKES: Objection. Form. 2 THE WITNESS: I don't think anyone 3 has ever added it up on that kind of way over a 4 decade. You know, this is going back over a 5 decade. 6 It's certainly in the millions of 7 dollars, but I can't tell you what the total 8 would be from every case. 9 BY MR. JESSEE: 10 Q. Do you -- can you tell me how much 11 you made testifying as an expert for plaintiffs 12 in 2019? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: No. I can't tell you 15 that. I can tell you -- no. I mean, I don't 16 have a total -- no idea what the total was. 17 BY MR. JESSEE: 18 Q. Do you agree it's over a million 19 dollars? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: Yes. Now, some of 22 that is a little skewed, because opioids was --
1 of dollars. 2 Q. With regard to your litigation work 3 for plaintiffs in personal injury cases, have 4 you made over \$10 million? 5 MS. STOKES: Objection. Form. 6 Calls for speculation. 7 THE WITNESS: You know, I don't -- I 8 don't know the answer to that question. I 9 certainly have made millions of dollars. I 10 just don't know what the total is over -- I've 11 never added it up. 12 BY MR. JESSEE: 13 Q. Is it possible it's over \$10 14 million? 15 MS. STOKES: Objection. Form. 16 THE WITNESS: Again, I have no 17 ability to answer that question. I just don't 18 have the answer. 19 BY MR. JESSEE: 20 Q. Would your -- is that something your 21 wife keeps up with, as far as the billing 22 invoices and the tax returns, or is that --	1 it gets a little -- it depends. Opioids was 2 work over five years, for example. 3 So I didn't submit a bill until the 4 end. So it was work over five years. And how 5 do you -- your question -- do you mean in 2019? 6 Sometimes -- I mean, you understand the answer. 7 BY MR. JESSEE: 8 Q. Right. As far as actually invoicing 9 and getting paid though, it would have been 10 over -- at some point, over a million dollars 11 last year? 12 MS. STOKES: Objection. Form. 13 THE WITNESS: If you include the -- 14 certainly, if you include the work for the 15 prior five years, because, I mean, the cash -- 16 the receipt -- I'm not even sure. 17 I assume I was paid in 2019, but 18 that was -- I got paid in 2019 for work going 19 back to 20 -- don't hold me exactly -- to 2015. 20 So that's why it's not -- I mean, I can't just 21 do it precisely by the year. 22 BY MR. JESSEE:

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1 Q. Do you have any other depositions or 2 trial testimony scheduled currently? 3 A. There is a case -- there is one 4 other case that may happen that I'm not sure I 5 have been -- I'm not sure I can talk about. 6 There is one other that comes to mind. 7 Q. And -- that's fair. 8 Other than the one you are not sure 9 whether you can talk about, are you planning -- 10 do you have any plans to testify at any trials 11 coming up or -- 12 MS. STOKES: Objection. Form. 13 THE WITNESS: I don't -- I don't get 14 to make those decisions. I get called. So, I 15 mean, the answer is, will I get called in New 16 York state opioids? I don't know. I have done 17 the deposition. 18 I think the MDL opioids has probably 19 CT1. I mean, probably nothing else this year, 20 I mean, on the manufacturers. 21 Essure -- again, let me just not 22 talk.	1 here for today? 2 A. I hope not. 3 Q. So not to your knowledge? 4 A. Yeah. There is always -- I say 5 that. You understand. Sometimes you end up 6 getting disclosed and you don't realize you are 7 disclosed, but I should not be. 8 Q. You understand there's hernia mesh 9 litigation against other manufacturers besides 10 Bard? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: Yes. I think I have 13 seen that. I have not focused on it, and I 14 have not been involved. 15 BY MR. JESSEE: 16 Q. You haven't reviewed the other 17 products information? 18 MS. STOKES: Objection. Form. 19 Vague. 20 THE WITNESS: You used the word 21 hernia mesh. So I certainly have, for example, 22 on Gore-Tex, on dual mesh. For example, I
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1 MS. STOKES: Yeah. 2 THE WITNESS: I'm a little 3 uncomfortable. 4 MS. STOKES: You can ask about 5 what's scheduled, but beyond that, this is 6 improper. 7 MR. JESSEE: That is what I asked. 8 THE WITNESS: And I don't know what 9 has been disclosed and what witness list or 10 whatever, but, again, you have a pretty good 11 sense of the cases I'm involved in. And you 12 can probably -- you can -- what I would suggest 13 is, just look at the cases I'm involved in. 14 And if there is trials, you can 15 guess whether -- are they going to be trialed 16 and I'm going to get called? And you know as 17 much as I do, but there is one I just don't 18 want to talk about. 19 BY MR. JESSEE: 20 Q. That's fine. 21 Have you been disclosed as an expert 22 in any hernia mesh cases besides the ones we	1 have -- because of looking at the 510(k) for -- 2 in this case, the Gore-Tex is included in that 3 510(k), as we talked earlier. 4 So I have reviewed some of that 5 stuff, because, obviously, it's in the 6 predicate chain, but the answer is only as it 7 relates to this matter. 8 BY MR. JESSEE: 9 Q. Anything -- as far as other 10 products, would it be fair to say your review 11 is consistent -- 12 THE WITNESS: Is this mine? 13 MS. STOKES: Yes. 14 THE WITNESS: Thank you. I'm sorry. 15 BY MR. JESSEE: 16 Q. I will start over there. 17 With respect -- to the extent you 18 reviewed other products, would it have been in 19 connection with the regulatory submissions for 20 the products at issue in this litigation? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: Correct. And we are

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1 staying with hernia mesh, because, obviously, 2 the California case that I testified on was 3 vaginal mesh. I just want to be fair. 4 BY MR. JESSEE: 5 Q. And to be fair, you're not -- are 6 any of the opinions that you offer -- or any of 7 the review and documents you reviewed as part 8 of that litigation, are you using any of that 9 here in this litigation? 10 MS. STOKES: Objection. Form. 11 Vague. 12 THE WITNESS: So there may be, 13 again, general statements about FDA review 14 process, right? I mean -- so not about 15 specific matters, not about the specific 16 devices, but the 510(k) process, substantial 17 equivalence. 18 I am sure I would -- if you asked me 19 questions, I would hopefully testify the way I 20 would testify there, not on product specific 21 matters, but on the regulatory framework, I 22 would testify.	1 MR. JESSEE: Oh, yeah. That would 2 be great. Why don't we go off the record. 3 THE VIDEOGRAPHER: We are going off 4 the record. This is the end of Media Unit 2. 5 The time is 11:57. 6 (A short recess was taken.) 7 THE VIDEOGRAPHER: We are going back 8 on the record. This is the start of Media Unit 9 No. 3. The time is 12:38. 10 BY MR. JESSEE: 11 Q. Dr. Kessler, I want to ask you a few 12 questions about the supplemental -- or the 13 errata sheet that was served on us yesterday. 14 And this is going to be Exhibit No. 4. And I 15 believe there's actually a copy of it, sir, 16 right there for you to take a look at. 17 Is this a document that you put 18 together? 19 A. It was -- it was under my direction 20 answered review. 21 Q. Okay. And what was the purpose of 22 this document?
1 And I'm sure we could find 2 statements in this report that might match that 3 report, again, on the general statutory 4 regulatory framework. 5 BY MR. JESSEE: 6 Q. Sure. I understand that. 7 And as far as product specific -- 8 any product specific opinions from that 9 litigation not relevant to this litigation? 10 MS. STOKES: Objection. Form. 11 THE WITNESS: Different 12 manufacturer, different set of very specific 13 questions. 14 Again, I was testifying for the AG, 15 I think, on just very specific questions. 16 MR. JESSEE: Doctor; I think now 17 would be a good time to take a short break. 18 And we can talk about if we want to 19 try to do a quick lunch now or move on. I'm 20 fine either way. 21 MS. AMINOLROAYA: If you want, we 22 can set up lunch. It's here.	1 A. As you can see, I mean almost 2 everything here is -- is just to make sure the 3 report is accurate. 4 Q. Okay. Was there just, when you were 5 reviewing the report in preparation for the 6 deposition, little things you noticed that 7 needed to be corrected? 8 A. Yes and no. Yes, I mean I did 9 notice some things that needed to be corrected. 10 But when -- sometimes I had the document pulled 11 and underlined that it's not exactly in the 12 right same cite. So this was a lot of just 13 cite checking and typographical kind of stuff. 14 Q. And would it be fair to say that 15 none of the issues that are addressed in this 16 errata sheet are a change in any substantive 17 opinions? 18 A. I think that's -- I think that's 19 absolutely fair. They're just -- they're 20 mistakes. 21 Q. Okay. 22 A. They're just typographical mistakes.
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1 I have one correct -- not a 2 correction but one thing I promised earlier 3 this morning that I just need to respond to, if 4 can I -- 5 Q. Sure. 6 A. Can I respond? 7 You asked me, and I said I think -- 8 I don't know whether you said during your 9 lunch. But you asked me, and I didn't have it 10 in my head the different materials that went 11 into the different devices, right? And I was 12 looking. And I didn't want to spend more time. 13 And I asked counsel. 14 And apparently there's a nice chart 15 that's produced in the interrogatories of which 16 materials are in which devices. So -- you can 17 see that some of those devices -- you asked me 18 specific about Marlex and Ventrelight. 19 And certain of these devices had 20 different materials at different times. And 21 obviously I couldn't keep all of that in my 22 head. So that -- that should be a fair record	Page 278 1 A. I don't recall seeing it, sir. 2 Q. The report your -- itself -- we were 3 just talking about the errata sheet. 4 Was it a similar thing with the 5 report itself where someone else actually typed 6 it up under your direction? 7 A. Dictated it. Dictation is probably 8 the right -- the right way to say it. 9 Q. Okay. And who was it that typed it 10 when you dictated it? 11 MS. STOKES: I'm going to -- I'm 12 going to object and instruct him not to answer 13 that. 14 MR. JESSEE: Okay. 15 THE WITNESS: I'm -- I've been -- I 16 have an instruction, right? I'm not going 17 to -- 18 BY MR. JESSEE: 19 Q. And you -- you've certainly answered 20 that question before in your prior testimony. 21 A. Yeah. I mean I -- I -- I mean there 22 -- there -- there may be -- I -- so it's
Page 279 1 of what materials was used when. 2 Q. Okay. And is this the materials 3 that you reviewed when you were preparing your 4 report? 5 MR. JESSEE: And what I'm going to 6 do, just so it's clear, I'll go ahead and mark 7 this as exhibit -- 8 MS. STOKES: It's going to be 20, I 9 think. 10 (Deposition Exhibit 20 was marked 11 for identification.) 12 BY MR. JESSEE: 13 Q. This is 20. 14 And this is something that is 15 provided to you during lunch? 16 A. At my request. 17 Q. Yeah? 18 A. To answer your question. 19 Q. Okay. 20 A. I -- I -- correct. 21 Q. Do you know if you received that at 22 any point earlier before lunch today?	Page 281 1 counsel. 2 There may be a different person in 3 the room at a different point in time. And 4 somebody may get tired. But I tend to dictate. 5 I may have typed a little, but I tend to 6 dictate. 7 Q. The -- and do you know how many 8 expert reports you've authored over the course 9 of your litigation career? 10 A. I have -- 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I think you can -- I 13 mean I tend to be pretty strict if I'm going to 14 testify. Even in the State of California, 15 where there's not reports required, I tend to 16 make myself do an expert report. 17 So I mean I don't -- I wouldn't say 18 count up the times I've test -- that -- it's 19 not true. I wouldn't -- I wouldn't want to 20 state that every time there's an expert report. 21 But I -- I tend to over -- I tend to 22 do an expert report even when one is not

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1 required, just because I don't think that's -- 2 I think it's better for the -- the parties. 3 And it's also better for me. 4 BY MR. JESSEE: 5 Q. And you tend to be very thorough 6 when you're putting those expert reports 7 together, correct? 8 MS. STOKES: Object to form. 9 THE WITNESS: So I -- I try. Okay? 10 The problem is, as with anything, these are -- 11 these are five devices, plus, right, over many 12 years. A lot of material, issues upon issues. 13 And not everything -- I would not 14 say every issue gets identified perfectly the 15 first time. I mean things get narrowed; other 16 issues come up, you know. 17 I mean there's only so much -- as 18 you know. I mean I'm trying to get a book out. 19 There's only so much time one has, right? 20 I mean one could spend thousands of 21 hours on mesh. I spent some -- 233 or 22 something like that doing this. You know, you	1 Q. Who contacted you? 2 A. I believe it was a -- the lawyer at 3 Levin Papantonio, Matt Schultz. 4 Q. Would you agree that in the -- we -- 5 we can agree with regard to the -- not the 6 exact number but that you've done a fair amount 7 of expert reports over the course of your 8 work -- litigation work? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: Over the last ten 11 years, that's -- that -- that's a -- it's a 12 significant list. 13 BY MR. JESSEE: 14 Q. And you agree that it's important 15 not to cherry-pick the information that you 16 rely upon, correct? 17 MS. STOKES: Objection. Form. 18 THE WITNESS: I try very hard to 19 make sure I understand all aspects of an issue. 20 BY MR. JESSEE: 21 Q. Okay. And that would be -- include 22 information that might be contrary to an
1 do what you can do. I mean -- 2 MR. JESSEE: Sure. 3 THE WITNESS: -- that's reasonable. 4 I -- I try to do a good faith 5 effort. But as you see, I -- someone caught an 6 issue that I had not caught. And so let's 7 leave it at that. 8 BY MR. JESSEE: 9 Q. When were you initially retained in 10 this litigation? 11 A. If you can take -- if you can change 12 the word from -- take out the word "retained," 13 I can answer your question. 14 Q. Okay. When were you initially 15 contacted? 16 Is that a better -- 17 A. Yeah. That -- that would be fair. 18 Because I -- 19 Q. Okay. 20 A. -- never know what the word 21 "retained" means. 22 I think it was March of '19.	1 ultimate opinion that you reach; it's important 2 to look at that information as well, right? 3 A. I -- 4 MS. STOKES: Objection. Form. 5 THE WITNESS: Absolutely. Because I 6 know you're going to ask me about it. And I 7 would -- would much rather -- I mean I tend to 8 -- I try hard -- as hard as I can to include as 9 much as I can within the limits of, you know, 10 time and -- and human ability. 11 BY MR. JESSEE: 12 Q. And you understand, from your 13 time -- in time serving as an expert, too, and 14 as your -- from your law school days perhaps as 15 well, that the federal rules require in the 16 report a complete statement of all the opinions 17 a witness -- an expert witness will express, 18 right? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: You -- you could -- so 21 I -- I -- we can pull Rule 26. What I 22 certainly know, and what I'm happy to -- what I

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1 certainly understand is my goal in that report 2 is to try to give you the four corners of my 3 report and, to the best of my ability, 4 recognizing that, you know, there are going to 5 be questions you're going to ask me and things 6 that are going to come up. And I'm going to be 7 responsive to. 8 So I -- I try very hard to -- to do 9 that. 10 BY MR. JESSEE: 11 Q. Did you -- was there ever an 12 engagement letter that was sent to you? 13 A. No. I don't believe so. 14 Q. So it was just a verbal agreement 15 eventually that -- at one -- some point in time 16 that you would serve as an expert? 17 A. I'm not even sure -- 18 MS. STOKES: Yeah. 19 THE WITNESS: I'm not -- 20 MS. STOKES: I'm going to object and 21 instruct him not to answer. 22 MR. JESSEE: As to whether they --	1 continuum. 2 I didn't know about this case when I 3 got the first phone call. I didn't know what 4 the issues were. I didn't know whether I would 5 have anything helpful that I would be able to 6 offer the court, right, to -- so I mean you 7 learn that over time. 8 Q. Had you worked with counsel who 9 contacted you before? 10 A. Counsel who contacted me, I had. I 11 had not been his -- he -- the counsel who 12 contacted me was just to make an introduction 13 to me to somebody else who I had not work -- 14 Q. And who was that that you were 15 introduced to? 16 A. To Tim O'Brien. 17 Q. Okay. 18 A. I have no recollection of working 19 with Tim prior. 20 Q. You ever designed a medical device? 21 A. Yes. 22 Q. Was that the syringe cap when you
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1 when he became an expert? 2 MS. STOKES: That wasn't the 3 question. 4 BY MR. JESSEE: 5 Q. Okay. So there's no -- 6 MS. STOKES: If you want to ask a 7 more -- 8 BY MR. JESSEE: 9 Q. -- there's no engagement -- 10 MS. STOKES: -- precise question. 11 BY MR. JESSEE: 12 Q. -- no engagement letter? 13 A. There's -- there -- there's -- 14 there's no engagement letter. 15 Q. All right. 16 A. You know -- 17 Q. You did agree to serve as an expert 18 for plaintiffs' counsel at some point in time 19 in this litigation? 20 A. I -- I think -- I think the day I 21 signed the report. Look, exactly what point 22 that is -- I mean, as always, there's a	1 were -- back around when you were working in 2 the Bronx? 3 A. You got it. Boy, you -- you really 4 have -- 5 Q. I've -- I've read the -- 6 A. Either that, or you had a camera in 7 my office in the Bronx when I was sitting there 8 trying to -- to do this. 9 Q. Yeah. And did -- that never 10 actually though went to market, right? 11 A. Yeah. I had -- I mean I've -- that 12 was -- were -- my preFDA days I was medical 13 director of a hospital trying to figure out how 14 medical staff would not get stuck. 15 Q. Right. Exactly. 16 And that -- that never -- that -- 17 you ever -- that -- did you file a patent for 18 that device? 19 A. I may have got -- I don't think I 20 went that far. I mean I think I may have done 21 some steps. But I never went that far. 22 Q. Okay.

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<p>1 A. I mean I think I hired somebody to 2 do a patent search and --</p> <p>3 Q. Okay.</p> <p>4 A. -- et cetera. But I don't believe 5 I...</p> <p>6 Q. Other than that -- and that was -- 7 would have been, what, the -- that's 1980s, 19 8 --</p> <p>9 A. You have it. Beginning of the AIDS 10 epidemiology.</p> <p>11 Q. Other than that -- the cap for the 12 syringe, have you ever designed a medical 13 device?</p> <p>14 A. So I -- so I have been part of 15 discussions you know, that have sat there and 16 talked about medical devices, certainly on 17 boards, et cetera.</p> <p>18 But I don't want to -- I don't sit 19 there. And I -- I didn't draw -- draw the 20 schematics. I don't want you to leave that 21 impression. That's not my area.</p> <p>22 Q. Have you ever tested a surgical</p>	<p>1 mechanical engineering side of things.</p> <p>2 A. Correct.</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: Now -- now, to -- now 5 there are mechanical engineering things that 6 are part of the regulatory submissions. And 7 I'm happy to go into it if it abuts that 8 regulatory submission. But I would not be the 9 one who would do that -- those tests.</p> <p>10 I mean I've done animal testing, not 11 of -- of -- in other contexts. And I'm 12 imperfectly competent to discuss with you 13 animal studies. But I didn't do any studying 14 here. But I'm happy to discuss studies from a 15 regulatory context and what they mean.</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. The -- I see the -- and I didn't ask 18 about this earlier. There is a PerFix Plug 19 that is here on the table.</p> <p>20 Did -- is that something you brought 21 with you?</p> <p>22 A. I -- I just have -- I have all the</p>
<p>1 mesh?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 THE WITNESS: I've done no trials 4 and studies of surgical mesh.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Okay. And when -- just so we're 7 clear, when we're talking about studies, that 8 -- are we -- that would include -- you haven't 9 done any like mechanical testing or anything 10 like that of surgical mesh, correct?</p> <p>11 A. I'm in the -- I'm a regulatory 12 expert. I mean so -- so the record is clear, 13 even FDA -- for the -- even FDA doesn't test 14 medical devices, I mean with -- with a few 15 exceptions.</p> <p>16 Q. Sure.</p> <p>17 And -- yeah.</p> <p>18 And then I'm just trying to clarify 19 then, you know, what areas -- and -- and I 20 think you've been consistent.</p> <p>21 You're talking about the regulatory 22 set of things, not -- not going into the</p>	<p>1 devices with me. They just happened to be -- I 2 just was -- I was looking at one thing about it 3 this morning.</p> <p>4 Q. Okay. And those -- were those 5 provided to you by counsel?</p> <p>6 A. Yes. I asked for it. Yeah. I -- I 7 don't think these are things I can go into the 8 Walgreens and buy.</p> <p>9 Q. No. I mean -- no.</p> <p>10 I mean they're obviously 11 prescription medical devices, right?</p> <p>12 A. Yes. That -- that -- that's 13 correct.</p> <p>14 Q. And the --</p> <p>15 A. I -- I just asked to have them.</p> <p>16 Q. Any reason in particular the PerFix 17 one -- PerFix Plug plug one is on the table?</p> <p>18 A. Because I -- I wanted to see -- I 19 wanted to feel something this morning about 20 that device. And I -- I just -- I mean 21 something popped in my head. It's one of those 22 5:00 a.m. questions I had. And I just wanted</p>

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1 to check something. 2 Q. Did you have any experience with 3 hernia mesh prior to your involvement in 4 litigation? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: Not -- not -- I had -- 7 I had experience with some of the materials 8 that have been used, for example, and tested as 9 hernia meshes, et cetera, over time but not as 10 these products are designed. 11 BY MR. JESSEE: 12 Q. What about ePTFE; is that a material 13 you had experience with prior to your 14 involvement in litigation? 15 A. I did not -- 16 MS. STOKES: Objection. 17 Go ahead. 18 THE WITNESS: Sorry. 19 I did not have experience with ePTFE 20 or PTFE before. It was not something that rose 21 as an issue of when I was at FDA. 22 BY MR. JESSEE:	Page 294	Page 296 1 believe you state in your report, the body of 2 it, that this is a list of documents that were 3 either provided to you or that you found 4 independently? 5 A. That's a fair statement. 6 Q. Okay. And would it be accurate to 7 say that not -- you don't rely on every single 8 one of those documents for your opinions? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: I -- I -- I think 11 that's probably well stated. I specifically 12 used the word "considered" rather than 13 "relied." I think that -- I think that -- the 14 answer probably to your question is yes, I 15 know. I mean I... 16 BY MR. JESSEE: 17 Q. Okay. Did you review every one of 18 the documents listed in Appendix C? 19 A. At -- at some point I probably 20 touched, I mean, or scanned or -- I mean 21 probably more -- let me put it more -- be more 22 exact.
1 Q. What about the separate 2 technology -- do you know -- you know -- 3 understand -- 4 A. I -- I -- 5 Q. -- what I refer to when I say -- 6 A. I -- happy to discuss that the rest 7 of the afternoon. 8 Q. Well, and we'll get there. 9 But I just want to know -- just my 10 question now is did you have experience with 11 that prior to your involvement with litigation? 12 A. Not -- not -- 13 MS. STOKES: Objection. Form. 14 THE WITNESS: Not that specific 15 technology. I don't remember it being -- 16 coming up as an issue. And I don't remember 17 the dual -- the dual mesh application rising to 18 the commissioner. 19 BY MR. JESSEE: 20 Q. The -- I want to just briefly look 21 at Appendix C to your expert report. 22 And in -- it's -- this is -- I	Page 295	Page 297 1 I didn't -- I mean there are a lot 2 of depositions, for example, here. There are a 3 lot of articles. I would be on PubMed, or I 4 would even ask on depositions. I would be 5 searching multiple depositions for key words at 6 different points in time. 7 So I think, again, some of this is 8 the result of search -- or I would have 9 searched for these things. I don't want to 10 give you the impression -- there's no way that 11 I could have read thoroughly every single one 12 of these documents. But somehow they were 13 searched or -- or re -- you understand what I'm 14 saying. 15 Q. Yes, I do. 16 And so I'm focusing -- so to just 17 sort of summarize this Appendix C, you have 18 these Bates labeled corporate documents that 19 were produced by Bard as part of it, right? 20 A. Correct. 21 Q. You have the literature as -- 22 A. Correct.

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<p>1 Q. -- as a section in here. You have 2 depositions. 3 A. Correct. 4 Q. And then you have I think a general 5 or sort of miscellaneous section at the end? 6 A. Just the FDA documents after the -- 7 Q. Sure? 8 A. -- depositions, yes. 9 Q. So just with the -- have you -- just 10 focusing on the corporate documents listed 11 here, the Bates numbers one, have you reviewed 12 all the documents that's -- are listed there? 13 A. I wouldn't want to -- 14 MS. STOKES: Objection. Asked and 15 answered. 16 THE WITNESS: I wouldn't want to 17 swear to you that I've reviewed every single 18 page of all those documents. I mean I am a -- 19 I'm an avid searcher, right? I mean -- I mean 20 I think as the lawyers -- I mean, if you asked 21 the lawyers, no lawyer feeds me anything. 22 I mean I tend to search. I ask for</p>	<p>1 yourself? 2 A. Yes, sir. 3 Q. Is there a record of your search 4 terms that you used? 5 A. Not that I am aware of. I -- I -- I 6 don't keep any record. 7 Q. What -- what search terms did you 8 use? 9 A. A lot. 10 MS. STOKES: Objection. Form. 11 BY MR. JESSEE: 12 Q. Can you give an example of some of 13 them? 14 A. Last night? So I can tell you last 15 night I probably searched 160 -- 16 MS. STOKES: I -- 17 THE WITNESS: I'm sorry. 18 MS. STOKES: I'm just going to 19 caution you that, to the extent that you were 20 consulting with counsel on -- I'm going to 21 instruct you not to answer. 22 So with that caution --</p>
<p>1 the database, and I search documents. And the 2 reason there's so many documents here is 3 because, you know, you -- you get back -- you 4 see a lot of things. 5 BY MR. JESSEE: 6 Q. Yeah. 7 Is it -- when -- when you access to 8 the database, is through Relatively that you go 9 in there and search? 10 A. The -- the answer to your -- 11 MS. STOKES: Yeah. 12 THE WITNESS: The answer to your 13 question is no. But I'm not going to go there. 14 Because she's going to instruct me -- 15 MS. STOKES: Yeah. 16 THE WITNESS: -- not to -- 17 MR. JESSEE: Okay. 18 THE WITNESS: -- tell you the 19 actual -- probably the name of the database. 20 BY MR. JESSEE: 21 Q. Oh, okay. That's fine. Are you 22 physically searching it, doing the searching</p>	<p>1 THE WITNESS: I can tell you I was 2 -- I searched 168 days. I could -- 180 -- 68 3 day implant, a hundred and -- I mean there were 4 -- that -- I mean just that -- that's one that 5 -- I mean probably every version of that I was 6 searching last night. 7 BY MR. JESSEE: 8 Q. Why were you searching for 168 days? 9 A. I had found a document that was -- 10 it was an animal study. I had found a 11 document. There was a partial document. I 12 could never find the full report. And I was 13 trying to understand the actual animal data at 14 168 days. 15 Q. Did you ever find it? 16 A. I found a table, yeah. 17 Q. Did you ever find the full report? 18 A. No. 19 Q. The "Published Literature" section 20 of your appendix -- 21 A. Yeah. 22 Q. -- were these -- is this a mix of</p>

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<p>1 documents that was provided to you and that was 2 -- you found on your own? 3 A. That's a -- probably a fair 4 statement. This is -- I tend to be cumulative, 5 right?</p> <p>6 This is not of -- there are a lot of 7 documents here. And I'm willing to -- you 8 know, so I do a lot of PubMed searching myself 9 over time. But I tend to ask for documents 10 also.</p> <p>11 So this is -- this is not meant to 12 be any -- don't read anything -- I just tend to 13 be cumulative.</p> <p>14 Q. And -- and you seem to be very 15 thorough.</p> <p>16 And I'm -- given the volume of 17 literature here, I take it you didn't read 18 every single page of every one of the articles?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: That's a fair -- you 21 can be certain I searched that, right? So I'm 22 -- I'm -- at a certain point in time, I'm</p>	<p>1 With regard to the published 2 literature, did you try to find all the 3 published literature on the Ventralight? 4 MS. STOKES: Objection. Form. 5 Assumes facts.</p> <p>6 THE WITNESS: No. I was compulsive 7 and tried to find all the studies that -- and 8 you can see from my -- I tried to find all the 9 studies that Bard had done on Ventralight.</p> <p>10 I tried to -- I tried to be 11 comprehensive. So, I mean, I was obsessive 12 about trying to find every one of Bard's 13 studies.</p> <p>14 Do you understand?</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. Uh-huh.</p> <p>17 A. And that takes a lot of time, right, 18 because there are studies done over time. So 19 that, I can tell you, I worked very hard to try 20 to assure and probably accomplish that.</p> <p>21 I tried to be comprehensive in 22 searching for Ventralight studies in clinical</p>
<p>1 looking at certain questions, you know, over a 2 period of months. And so I am searching that 3 stuff.</p> <p>4 BY MR. JESSEE:</p> <p>5 Q. If you --</p> <p>6 A. And I'm not saying anyone has -- you 7 know, are -- they're relevant or even -- not 8 that I'm relying on them. But -- but somehow 9 I've touched them. I've touched upon or 10 researched the documents that -- those words or 11 including those words.</p> <p>12 Q. Did you try to find all of the 13 studies related to the Ventralight?</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 THE WITNESS: I try to be 16 comprehensive. I would never -- all the 17 studies? Say that again.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Did you try to find all of the 20 studies on -- and we are talking about the 21 clinical literature -- the published literature 22 here just -- let me -- I'll rephrase it.</p>	<p>1 stuff, but I don't want to represent that I 2 have every study.</p> <p>3 I did -- on the question that I 4 opine on -- one of the questions I opine on on 5 reabsorption, I tried to include all the 6 studies that I -- with regard to ST, the length 7 of reabsorption, the complete healing period.</p> <p>8 So there, I tried to be more 9 focused, but I don't want to state that I did 10 every study.</p> <p>11 Q. What about -- the same question for 12 the Ventralex, in that with regard -- would it 13 be the same for the Ventralex, in that you made 14 a comprehensive search of Bard's studies, but 15 not the medical literature in general about 16 Ventralex?</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 THE WITNESS: So there there were 19 two aspects of my report on -- or several 20 aspects. Just as I may have focused more -- I 21 was very compulsive on making sure I had the 22 Ventralex studies by Bard.</p>

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1 With regard to what was in the 2 medical literature, I worked -- I focused a 3 little more and was a little more comprehensive 4 when it came to Ventralex and, for example, 5 infection rate. 6 So there was a little more focus 7 there than on other aspects of Ventralex in the 8 clinical literature, but I was -- I mean, I was 9 as compulsive as I think anybody could be on 10 having all the studies of Bard. 11 BY MR. JESSEE: 12 Q. What was the infection rates that 13 you saw for the Ventralex in the literature you 14 reviewed? 15 MS. STOKES: Objection. Form. 16 THE WITNESS: The answer is, which 17 study? 18 BY MR. JESSEE: 19 Q. Well, in the overall. Can you 20 summarize what the overall infection rate for 21 Ventralex was? 22 A. I can give you that. Can I just get	1 percent when a laparoscopic approach. 2 So there are multiple different 3 rates. There is a substantial infection rate, 4 8 percent in this series, particularly with 5 MRSA. 6 So the answer to your question, it 7 depends on which study. 8 Q. In those two studies you're looking 9 at right there, those aren't specifically on 10 Ventralex, correct? 11 A. They are on ePTF. So let's just -- 12 this is not, but these are on ePTFE. And I 13 would have to go back and -- we'd have to pull 14 each one of these citations. And I have each 15 one of these studies in a notebook. 16 Q. What I am wondering is -- because I 17 didn't see in your report about a discussion of 18 the infection rates published for Ventralex and 19 studies looking at the Ventralex specifically. 20 MS. STOKES: Objection. Form. 21 BY MR. JESSEE: 22 Q. Is that -- and correct me if I am
1 my Ventralex infection papers? 2 It depends on which study we are 3 dealing with, and I can give you -- 4 Q. This is Exhibit 14? 5 A. Yeah. You are ahead of me, right? 6 So you can see here -- 7 Q. It looks like, Doctor, that you have 8 several pages of different studies -- or 9 several studies pasted on this? 10 A. Yeah. So, again -- so you can -- if 11 you want the answer to your question, each one 12 -- we can spend 20 minutes on each one of these 13 studies, and they all had different numbers in 14 here. 15 And I tried to -- I think, on the 16 infection rate, I tried to include, you know -- 17 PP meshes show infection rates ranging from 2.0 18 to 4.2 percent, you know. Citation is omitted. 19 In contrast, ePTFE show more or wide 20 ranging infection rates ranging from 0 to 9.2 21 percent when open surgical approach is used -- 22 again, citation is omitted -- and only 0.0 to 1	1 wrong. Was that -- do you have any specific 2 clinical studies in there, studying the 3 Ventralex, a discussion in your report? 4 A. I would have to go back. Let me go 5 back and check that specifically. I have a 6 list of all the studies. I don't have it in my 7 head, but, I mean, I am willing to -- whatever 8 the studies show the studies show. 9 Q. Okay. I mean, have you done a 10 comparison of the -- what the infection rate 11 for Ventralex is compared to other ePTFE 12 products? 13 MS. STOKES: Objection. Form. 14 Vague. 15 THE WITNESS: Yeah. So I choose my 16 words very carefully in the report. Let me 17 just -- let me just go to the infection. 18 I am not aware of Bard doing any -- 19 and this is one of the issues that I have. I 20 think what the opinion is -- I have no -- I'm 21 not aware of Bard doing any infection, 22 antimicrobial sensitivity of microbes getting

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1 stuck, whatever the kind of -- the different 2 kind of tests to see whether material harbors 3 and infection stays collected in Ventralex. I 4 don't see those studies. 5 My opinion is, there certainly was a 6 recognition, because ePTFE was submicronic. 7 And there was an issue of clearance and a 8 general acceptance within Bard about a higher 9 infection rate with ePTFE that my issue is the 10 lack of doing the design control to determine 11 what -- I mean, to minimize the infection rate 12 and, if, in fact, it was higher, to warn. 13 So I think I am very -- I am very 14 careful in how I state my opinion, if my memory 15 serves me right. 16 BY MR. JESSEE: 17 Q. And I think you are right. I'm just 18 looking at the summary, where you say: "To the 19 extent that Bard had evidence of higher 20 infection associated." 21 I'm looking at the summary of 22 Section No. 9 in your report.	1 Vague. Misstates. 2 THE WITNESS: I'm sorry. Just help 3 me understand. NonBard -- 4 BY MR. JESSEE: 5 Q. Medical literature, medical -- 6 A. NonePTFE devices? 7 Q. No. I will ask a better one. 8 It sounds to me from what you are 9 saying, if I can summarize it, your focus has 10 been on the testing or lack of testing, in your 11 view, that Bard did on these products; is that 12 fair? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: Yeah. I think that's 15 a significant part, yes. 16 BY MR. JESSEE: 17 Q. And with regard to though the -- 18 there is obviously -- there is for these 19 products -- like the Ventralex has been on the 20 market for a long time, correct? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: Depending on what --
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1 A. Yes. If I can get there. Just give 2 me what page. 3 Q. And I'm actually looking at the -- 4 it is on Page 90. I was just looking at the 5 table of contents too. 6 A. Just give me one second. What page, 7 sir? 8 Q. 90? 9 A. Page 90. What paragraph? 10 Q. Section 9, 262 and 263. 11 A. Right. But there's also -- if you 12 look at -- infection begins a number of pages 13 earlier. 14 Q. It does. I know. I am asking 15 though specifically about the language you 16 choose to use here, saying, "To the extent that 17 Bard had evidence." 18 You are not saying that -- you are 19 not going to offer an opinion that -- what the 20 infection rate in nonBard clinical literature 21 on the Ventralex is, right? 22 MS. STOKES: Objection. Form.	1 we can have an exact date, '08 Ventralex, 2 depending on which one we are talking about, 3 PET was '01. 4 BY MR. JESSEE: 5 Q. Right. And there has been -- in 6 clinical and peer reviewed medical literature, 7 there has been studies involving the Ventralex 8 over that time period, right? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: We have -- we have 11 certain data on ePTFE. I am not sure I have 12 seen any Bard studies on infection rate. 13 BY MR. JESSEE: 14 Q. I'm not talking about Bard studies. 15 I am talking about studies in peer-reviewed 16 medical journals, not that Bard did, but the 17 physicians using the advice data they published 18 on the Ventralex, are you aware of those 19 studies? 20 MS. STOKES: Objection. Form. 21 Assumes facts. 22 Go ahead.

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<p>1 THE WITNESS: So, again, I am aware 2 of general ranges of infection rates of ePTFE 3 implanted. We can go -- we talked earlier.</p> <p>4 If you have a specific Ventralex 5 infection rate in the literature that is only 6 Ventralex infection rate, I would be happy to 7 see it.</p> <p>8 I have -- the studies I have seen 9 here -- let's just go back -- in the report are 10 on ePTFE implants and I don't believe are just 11 Ventralex.</p> <p>12 Hold on one second. Give me one 13 second.</p> <p>14 I don't have readily at my 15 fingertips the kind of study that you are 16 talking about that just has Ventralex ePTFE. I 17 certainly don't have it in the Bard record.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. You have also looked at lit -- some 20 of this literature that you have isn't just all 21 stuff you found through Bard's files, right?</p> <p>22 A. That's correct, but I do that, not</p>	<p>1 line of questions I had, we have been talking 2 about -- just briefly about Ventralight and 3 Ventralex.</p> <p>4 Would it be true for PerFix Plug and 5 3DMax as well, that your focus was more on the 6 Bard documents and case studies on those 7 devices as opposed to the medical literature 8 overall looking at those devices?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: No. In that -- I 11 think that's a little different, if I may. The 12 issue there was, again, PerFix Plug, more 13 material, more -- a different -- I mean, the 14 type of design.</p> <p>15 I mean, there was more mesh, but I 16 certainly -- there, the issue and, I think, the 17 opinion among others is the failure to warn on 18 chronic pain.</p> <p>19 And I do believe I cite studies -- 20 happy to pull them for you -- in the medical 21 literature, where chronic pain -- not only the 22 complaints, not only in the company's own</p>
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<p>1 to get to a legal term, but that's sort of -- 2 if you look at Badhwar's testimony, if you look 3 at Ciavarella even, I mean, they recognize 4 there was a higher infection rate in their 5 depositions.</p> <p>6 And with that and with the general 7 numbers of -- in those studies, the company was 8 on notice that there were certainly issues of 9 higher infection rate.</p> <p>10 And I said, Look, with that being 11 known out there by your own statements and your 12 own testimony and the general literature, there 13 was an obligation to be able to design -- to 14 have adequate design controls to test whether, 15 in fact, there was a higher level of infection 16 and to minimize that.</p> <p>17 That's where my report is, but 18 others can talk about what the exact infection 19 rate, but I think the record shows the company 20 was on notice that there was a concern about 21 that.</p> <p>22 Q. Switching a little bit back to the</p>	<p>1 documents -- and I don't think there's any -- 2 it was in the European label, I think.</p> <p>3 It was in the European clinical 4 evaluation that there was chronic pain 5 associated with that device and, certainly, a 6 recognized adverse event and wasn't on the 7 label.</p> <p>8 So I certainly -- I cite studies 9 just to show that chronic pain was well 10 established and should have been in the label.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. So that's a little different than 13 the Ventralex and Ventralight that we were 14 talking about?</p> <p>15 A. Exactly. You got it. So there is a 16 little more emphasis.</p> <p>17 Q. Did you review the FDA review 18 memorandum for any of these 510(k)s?</p> <p>19 A. Yes. When they're available. Many 20 of them were FOI'd, but you have to be 21 specific. I have tried to look at the FDA file 22 when it exists. It doesn't always exist.</p>

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<p>1 Q. Did you review any documents on the 2 physician training programs that Bard provided 3 for hernia mesh surgeons?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: Yeah, yes. At certain 6 points, I was looking -- I forget the exact 7 context, but I was looking for slides that were 8 used in training programs and found some. So I 9 was focused on training at some point. I 10 looked at some of those decks, I believe.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. That didn't make it into your report 13 though, right?</p> <p>14 A. That's correct, but just so -- for 15 the record, I do remember searching -- I can't 16 tell you exactly how my thought processes went, 17 but something took me to understanding about -- 18 wanting to know that. So I did search.</p> <p>19 Q. The schedules that are attached to 20 your report, there are six of them. I'm not 21 going to go through -- yep. Six of them.</p> <p>22 I'm not going to go through them in</p>	<p>1 So those were specifically done at 2 my request, and I looked at them, but they are 3 not meant to be -- there is no buried opinions 4 in them.</p> <p>5 Q. And I guess I am just trying to make 6 sure I understand. So, for example, the 7 changes in the IFU, did you ask, Can I see a 8 chronology, showing the different changes over 9 time, or did you walk through and say, Hey, 10 this is what this one says. This is what you 11 asked for?</p> <p>12 A. I admit there wasn't time. I mean I 13 may have done a little of the second, but it 14 was more of, Can we just -- I need to make sure 15 that I have a document that shows what the 16 label said at different points in time for this 17 device. So it was a very specific instruction.</p> <p>18 Q. Okay. So the same thing. When we 19 are talking about Schedule 1, the device 20 history schedule, is that where you -- 21 something where you asked for a basic sort of 22 chronology of this?</p>
<p>1 detail this moment, but are these documents 2 that were created under your direction, or were 3 they provided to you?</p> <p>4 A. No. These were done under my 5 direction and review, but they were not done by 6 me. They are tend -- they are tended to be 7 objective facts.</p> <p>8 If we want to talk about -- for 9 example, you asked me a date, right? What 10 date?</p> <p>11 And I just wanted to have those 12 things available so that I could refer to it 13 today or you and I could refer to it today, but 14 if there is any mistake in the -- they were 15 under my direction and review, but if there is 16 any mistake in there, I am happy to correct it. 17 It was just trying to get the core -- my head 18 around basic things about these devices. So --</p> <p>19 Q. Okay.</p> <p>20 A. -- I mean, it's changes in the IFU, 21 some sense of the chronology of what happened 22 when.</p>	<p>1 A. Of the different Bard devices and -- 2 but I asked to make sure that they didn't -- 3 that they were just quotes from the device -- 4 from documents and just give us some sense of 5 when different things were, but I recognize, 6 you know, a full chronology of every 7 interaction with FDA would take, you know, 8 boxes and boxes. So that is not -- that just 9 gives us some, you know --</p> <p>10 Q. So it's the same basic idea then for 11 the device schedule, the decision tree. You 12 asked for these particular things, and they 13 provided you with --</p> <p>14 A. The predicate -- the predicate 15 things, yeah. To the best -- and then I tried 16 to play some role in there, but, again, what it 17 does is, you just have to go through each 18 application, you know, and pull the predicate 19 and then pull the predicates of the predicate 20 of that other application.</p> <p>21 So it's -- I mean, it's a pretty 22 regimented kind of operation, but I did not do</p>
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<p>1 that myself. I did review it.</p> <p>2 Q. Let's talk some about the FDA</p> <p>3 regulation of medical devices.</p> <p>4 A. Happy to do that.</p> <p>5 Q. I know you know a thing or two about</p> <p>6 that.</p> <p>7 In the U.S., obviously, the FDA is</p> <p>8 the agency that's -- who regulates medical</p> <p>9 devices, correct?</p> <p>10 MS. STOKES: Objection. Form.</p> <p>11 THE WITNESS: Yeah. I don't think</p> <p>12 that's a trick question.</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. I was hoping this would be</p> <p>15 noncontroversial.</p> <p>16 A. I'm going, Well, is there any</p> <p>17 National Bureau of Standards? Is there</p> <p>18 anything else that -- yeah. I think that's a</p> <p>19 fair standard -- a fair question.</p> <p>20 Q. Would you agree that the FDA is</p> <p>21 charged with the responsibility for protecting</p> <p>22 the public health by assuring the safety,</p>	<p>1 specific. You can't make that general</p> <p>2 statement, based on the statute.</p> <p>3 You know, I'm sure we will spend the</p> <p>4 next 40 minutes discussing whether substantial</p> <p>5 equivalence is safety and effectiveness.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Are you putting a time limit on me</p> <p>8 here?</p> <p>9 A. I'm happy to do as much as you'd</p> <p>10 like. I'm happy to do as much as you'd like.</p> <p>11 So the question is, is substantial</p> <p>12 equivalence -- you can pick certain -- does it</p> <p>13 go to safety and effectiveness? Is it</p> <p>14 substantial equivalence? So you got to be</p> <p>15 careful. I'm not answering that.</p> <p>16 Q. I'll tell you. That language I just</p> <p>17 read is straight from the FDA web site.</p> <p>18 A. But be careful. You know, the FDA</p> <p>19 web site is -- some of that is apple pie and</p> <p>20 motherhood and all things good and PR stuff.</p> <p>21 I mean, I think if you want to know</p> <p>22 what FDA is charged with, you have to look at</p>
<p>1 efficacy, and security of human and veterinary</p> <p>2 drugs, biological products, and medical</p> <p>3 devices?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: Yeah. You are quoting</p> <p>6 me again on some FDA document, and that's fine.</p> <p>7 Yeah. That's general. Let's just</p> <p>8 see.</p> <p>9 You said safety and -- can you just</p> <p>10 -- this is rough. What was --</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Safety and efficacy and security</p> <p>13 of --</p> <p>14 MS. STOKES: Same objection.</p> <p>15 THE WITNESS: Yeah. So that's --</p> <p>16 the answer is, it's complicated.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. Okay. Can you -- you don't agree</p> <p>19 with that, that they are charged under the law</p> <p>20 with that responsibility?</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 THE WITNESS: The law is much more</p>	<p>1 the statute and the regulatory history.</p> <p>2 And as you know well, you know, over</p> <p>3 your career, there are devices where you have</p> <p>4 to affirmatively show safety and effectiveness</p> <p>5 from premarket approval.</p> <p>6 And the 510(k) process is based on</p> <p>7 substantial equivalence, which has touches of</p> <p>8 safety and effectiveness, but it's not the same</p> <p>9 kind of review. So that's where the rub is.</p> <p>10 Q. And I promise you. I'm going to let</p> <p>11 you -- we're going to get into that part of it</p> <p>12 first. And I just wanted to sort of start from</p> <p>13 a little bit higher level here though.</p> <p>14 With regard to the FDA's oversight</p> <p>15 of medical devices specifically, one aspect of</p> <p>16 it -- and we will talk about -- is the</p> <p>17 premarket review of devices, correct?</p> <p>18 A. Yes, sir.</p> <p>19 Q. Another aspect of it would be</p> <p>20 post-market surveillance involving devices,</p> <p>21 correct?</p> <p>22 A. Correct. Sure.</p>

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<p>1 Q. There is other aspects of the FDA's 2 regulation of medical devices that involve the 3 entire lifecycle of a product, right?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 THE WITNESS: I'm not sure -- I 6 understand -- I understand clearance review, 7 post-market surveillance.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. For example, quality system 10 regulations you are talking about.</p> <p>11 A. Sure. Well said, sir. That is 12 correct.</p> <p>13 Q. I am tempted to stop now with that 14 compliment, but I think we will keep going.</p> <p>15 A. No. You have that exactly right. I 16 mean, I think that is well said. I just wanted 17 to understand --</p> <p>18 Q. That's what I was getting at.</p> <p>19 A. -- what you were referring to in the 20 lifecycle.</p> <p>21 Q. And that would include then, as part 22 of that, inspections that FDA will do?</p>	<p>1 A. Thanks.</p> <p>2 Q. You say here that the FDA classifies 3 devices according to a level of regulatory 4 control necessary to provide a reasonable 5 assurance of safety and efficacy?</p> <p>6 A. Page 14?</p> <p>7 Q. No. I'm sorry. Paragraph 14.</p> <p>8 A. I apologize.</p> <p>9 Q. That's all right. Let me make sure 10 I have it, yeah. Actually, I guess you said -- 11 let's make sure I read it correctly.</p> <p>12 It says, "Congress established" 13 three levels -- "three classes of devices, 14 based on the regulatory requirements needed to 15 provide" a -- to provide "reasonable assurance 16 of their safety and effectiveness"?</p> <p>17 A. Correct.</p> <p>18 Q. And with Class III being the highest 19 risk, Class I being the lowest?</p> <p>20 A. Correct.</p> <p>21 Q. And it's the FDA then who determines 22 which class a device or a category devices will</p>
<p>1 MS. STOKES: Objection. Form.</p> <p>2 THE WITNESS: It's all the 820 -- we 3 wrote the regs. What did we write? The final 4 regs were '96, I think, that we wrote. So it's 5 all those aspects of the QSM and QSRs.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. So the -- and this is, I think, 8 mostly in your report. I just want to make 9 sure we are sort of walking through the time 10 line of the regulations.</p> <p>11 We obviously have, in 1976, the 12 medical device amendments that set forth the 13 three classes of devices?</p> <p>14 MS. STOKES: Objection. Form. Is 15 that a question?</p> <p>16 THE WITNESS: I mean, there was a 17 number of different ways of slicing that world.</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Okay. Maybe -- that probably wasn't 20 a good question. Let's look at your report.</p> <p>21 Maybe it's easier.</p> <p>22 Paragraph 14.</p>	<p>1 be classified in, right?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 THE WITNESS: There were panels 4 going back to the '70s and '80s, but in the 5 end, you are correct.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Okay. In the process for 8 classifying a -- for determining what 9 classification a device will be in, there is 10 sort of different steps. And I think you laid 11 this out in the report.</p> <p>12 The first step is that the FDA will 13 receive a recommendation from a device 14 classification panel, right?</p> <p>15 A. In some instances, yes. That was 16 the way it was done initially.</p> <p>17 Q. And those device classification 18 panels, those were, basically, advisory 19 committees?</p> <p>20 A. Fair. Actually, some were 21 intergovernmental, if my memory serves me 22 right.</p>

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1 Q. And those will often be experts and 2 those the type of devices that are being 3 classified? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: Yeah. There was 6 expertise, but some of these were not -- they 7 weren't the quite device panels as you have 8 today of the advisory committees. They were 9 certain groups that FDA put together, if my 10 memory serves me right. 11 BY MR. JESSEE: 12 Q. They would certainly include 13 physicians who were using those types of 14 devices though, right? 15 MS. STOKES: Objection. Form. 16 Assumes facts. 17 THE WITNESS: Be careful. I mean, 18 you're testing my memory. I am not sure exact 19 -- some of those device panels were a little 20 strange. 21 BY MR. JESSEE: 22 Q. We will look at the Federal Register	1 Q. Ideally? 2 A. Ideally. Again, sometimes after 3 decades and -- but, I mean, you have to 4 understand. There were a lot of devices on the 5 market beforehand. 6 And congress says, Oh, divide the 7 world up into classes. And all new device -- 8 you know, it's just not as simple, because you 9 have all these grandfathered devices. 10 And then you have a device that 11 comes on the market the day after that 12 grandfathered device and is it different and -- 13 I mean, it was a very complex and, in some 14 ways, cumbersome system. 15 Q. You would agree that the vast 16 majority of devices classified as Class II are 17 then subject to the 510(k) pathway? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: Yeah. I mean, that's 20 the way it turned out. It's not the way 21 congress originally wrote it. 22 BY MR. JESSEE:
1 for this hernia mesh in a second. I am just 2 trying to get an overall view first. 3 A. Sure. 4 Q. The next sort of step after the FDA 5 receives its recommendation from the advisory 6 committee is that they publish the panel's 7 recommendation for comment along with a 8 proposed regulation classifying the device? 9 A. Sure. 10 Q. And that can sometimes take several 11 years? 12 MS. STOKES: Objection. Form. 13 THE WITNESS: Absolutely. 14 BY MR. JESSEE: 15 Q. The -- 16 A. Take preemptive devices, you can 17 probably substitute the word decades. 18 Q. And after that time, where they're 19 for public comment, eventually, the FDA will 20 publish the final regulation classifying the 21 device? 22 A. Hopefully.	1 Q. In 1976? 2 A. Yeah. All implants were supposed to 3 be Class III. So it sort of -- you know, 4 everything sort of moved over time, I mean. 5 Q. And you know that there were 6 implants that were going through the 510(k) 7 process while you were commissioner, right? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: Well, congress changed 10 that standard in 1990, right? And there were 11 implants that I lived that hadn't -- you know, 12 the problem was the breast implants. They were 13 never tested. 14 They were premium Class III, and 15 they had never even gotten reviewed. So this 16 was a process that took decades. 17 BY MR. JESSEE: 18 Q. And when you were talking about in 19 1990, that would be the Safe Medical Devices 20 Act or SMDA? 21 A. Right. To which we wrote the 22 regulations.

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1 Q. Right. And that was something that 2 was passed and went into effect when you were 3 commissioner, or was it before? 4 A. I think it was right before, but I 5 think we did some of the 820, and those other 6 things were in response to the SMDA. 7 Q. And the SMDA was certainly important 8 legislation for the FDA's regulation of medical 9 devices, right? 10 MS. STOKES: Objection. Form. 11 THE WITNESS: The correct answer 12 would be, any legislation that congress passes 13 is important legislation, right? 14 BY MR. JESSEE: 15 Q. Well, the SMDA in particular though, 16 it changed -- it changed several aspects of the 17 FDA's regulation of medical devices, like the 18 example you just gave, right? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: Sure. I mean, it -- 21 what was originally started -- both the 22 implants as well as substantial equivalence was	1 the SMDA? 2 BY MR. JESSEE: 3 Q. I can tell you also that it's -- 4 I'll tell you what. We will pull it for you. 5 Do you have any reason to doubt 6 that? 7 MS. STOKES: Objection. 8 THE WITNESS: Whatever the statute 9 says, the statute says. I will agree. I'm 10 not, you know -- I mean, I just don't have -- I 11 mean, I don't remember exactly what was in 12 those amendments. 13 BY MR. JESSEE: 14 Q. And there were also though in the 15 amendments -- I don't know if you remember. If 16 you don't -- provisions relating to improved 17 post-market surveillance of devices? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: There was a shift 20 to -- Class II devices was supposed to have 21 performance standards in the '76 act. 22 BY MR. JESSEE:
1 further defined in the act. 2 BY MR. JESSEE: 3 Q. And then in the SMDA, it required 4 the FDA to review pre-amendment devices and 5 either down classify them or require them to go 6 through the PMA process, correct? 7 MS. STOKES: Objection. Form. 8 THE WITNESS: I've lived that, yes. 9 And that's a mess. 10 BY MR. JESSEE: 11 Q. That's something you did with the 12 breast implants, right? 13 A. Exactly. And that took decades. 14 And that's still -- I think it's just about to 15 be cleaned up today. 16 Q. In the SMDA, it also defined what 17 the standard for substantial equivalence is, 18 right? 19 MS. STOKES: Objection. Form. 20 THE WITNESS: You'd have to pull -- 21 I think you are right. I think there is 22 language -- do you have the actual language of	1 Q. Right. And then -- 2 A. And the problem was, they got around 3 to 1990, and none of Class II had -- there was 4 maybe one or two performance standards, and 5 that was it. 6 So we went, Holy, how are we going 7 to -- we are saying all these Class II are on 8 the market because there is performance 9 standards, but there is no performance 10 standards. 11 So they changed the terminology to 12 special controls, right, and said, Well, FDA -- 13 they had to give the sense to the American 14 public that, Well, there is some level of 15 protection to these devices that are -- come 16 through the 510(k) process, and said, Well, 17 there can be special controls. And they 18 include a range of different tools, right? 19 BY MR. JESSEE: 20 Q. Would you agree that the SMDA 21 authorized the FDA to require manufacturers to 22 perform post-market surveillance on permanently

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1 implanted devices if -- 2 MS. STOKES: Objection. Form. 3 THE WITNESS: There were -- 4 different tools were given to FDA at different 5 points in time. 6 BY MR. JESSEE: 7 Q. And one of the things SMDA 8 authorized was the device recalls and civil 9 penalties for violations of the FDCA? 10 A. That, I remember, yes. 11 Q. And in your experience at the FDA, 12 if the FDA determines that a device poses a 13 safety risk, does it have the regulatory tools 14 needed to attempt to address that risk? 15 MS. STOKES: Objection. Form. 16 Improper hypothetical. 17 Go ahead. 18 THE WITNESS: Not as much as you 19 would think. I mean, once a device is on the 20 market, you know, FDA -- the burden falls on 21 FDA. 22 And, you know, I dealt with one --	1 I just want to be careful on what 2 has to be shown under the recall standard, what 3 FTCA has to show. FDA can't -- FDA has to meet 4 certain standards once a device is on the 5 market in order to recall. Most recalls are 6 voluntary. 7 BY MR. JESSEE: 8 Q. Do you agree the FDA can ban devices 9 under certain circumstances? 10 MS. STOKES: Objection. Form. 11 THE WITNESS: It depends -- again it 12 depends on the -- it has to meet certain 13 standards. 14 BY MR. JESSEE: 15 Q. And do you agree that the FDA can 16 impose restrictions on the sale or distribution 17 of a device? 18 A. It depends on -- you'd have to get 19 the exact standard. It just can't snap its 20 fingers and do those things. 21 Q. I am not saying that. And, 22 obviously, there's -- but it's one of the
1 you know, just the breast implants took me four 2 or five years of enormous back and forth. And 3 there is a lot of litigation. 4 So it's -- FDA -- it's not that FDA 5 can snap its fingers and say, The device is off 6 the market. No problem. 7 BY MR. JESSEE: 8 Q. But there are enforcement actions 9 that the FDA can take if it has concerns about 10 the safety of the device, right? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: Not -- I wouldn't 13 agree to the way you phrased it. 14 BY MR. JESSEE: 15 Q. Would you agree that if the FDA is 16 concerned about the safety or efficacy of a 17 device, it can demand a recall of the device? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: I have to go back and 20 read the legal standard. Most of the recalls 21 are -- I mean, I have to read the -- if you 22 give me the statutory standard on recall.	1 options that the FDA may have to address a 2 safety problem, right? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: It may have -- again, 5 we'd have to -- you have to give me the statute 6 so we can be exact on -- 7 BY MR. JESSEE: 8 Q. So that one is in the Section 518A 9 of the FDCA. 10 A. You give me -- is it in my report? 11 I mean, I just -- I'm happy to pull it up. 12 Whatever the statutory standard is, if you pull 13 up that language, I'm happy to agree with you 14 that the statute says what the statute says and 15 sets out the standard. 16 I am just saying that I had 17 problems -- concerns about the safety of 18 devices, and it's just not as simple -- does 19 FDA go ban it, does FDA just recall it? The 20 device has been used; it's in people. 21 It's very hard to recall a device 22 that is in people, right? I mean, it's very

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<p>1 hard to ban a device that is in people, right?</p> <p>2 So that's -- those are the</p> <p>3 realities, because if you ban a device and it's</p> <p>4 been implanted, you know -- I mean, I've had</p> <p>5 people cut out devices out of their body. So</p> <p>6 you got to be very careful here.</p> <p>7 Q. Now, the FDA has the power to</p> <p>8 require manufacturers to notify all healthcare</p> <p>9 professionals who prescribe a device of its</p> <p>10 health risks.</p> <p>11 Do you agree with that?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: It depends. Again,</p> <p>14 whatever your list comes from the statute, I am</p> <p>15 happy to agree to the --</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. That those are the powers the FDA</p> <p>18 has?</p> <p>19 A. Those are the powers. You are</p> <p>20 reading portions of the statute and lists, but,</p> <p>21 again, there is a standard that applies to each</p> <p>22 one of those. I just want to be careful.</p>	<p>1 the time period, but you stated that when you</p> <p>2 assume the position of FDA commissioner, one of</p> <p>3 your top priorities was more vigorous</p> <p>4 enforcement of the law.</p> <p>5 Is that an accurate statement?</p> <p>6 MS. STOKES: Objection. Form.</p> <p>7 THE WITNESS: Yes.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. And that's -- basically, as FDA</p> <p>10 commissioner, you are in charge of enforcing</p> <p>11 FDCA, right?</p> <p>12 A. Correct.</p> <p>13 Q. The --</p> <p>14 A. I mean, I was the guy who ceased</p> <p>15 orange juice.</p> <p>16 Q. And one aspect, again, and we are</p> <p>17 now talking about the post-market side of FDA's</p> <p>18 regulation is medical device reports and the</p> <p>19 requirements that those must be submitted in</p> <p>20 certain circumstances?</p> <p>21 A. Yes, sir.</p> <p>22 Q. And there is actually a MAUDE</p>
<p>1 Q. The FDA can issue public health</p> <p>2 notifications for a device, right?</p> <p>3 A. Yes. Again, within certain process</p> <p>4 constraints.</p> <p>5 Q. And there is legal actions that can</p> <p>6 be taken in connection with the Department of</p> <p>7 Justice, such as seizures, injunctions,</p> <p>8 prosecution, civil monetary penalties?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: If certain standards</p> <p>11 and certain things are met. Each one of those</p> <p>12 requires enormous resources. And, you know,</p> <p>13 each one takes an enormous amount of energy.</p> <p>14 And, of course, there is a great --</p> <p>15 I mean, each one consumes a great deal of</p> <p>16 energy from the agency. And there is a limit,</p> <p>17 because of resources, to what the agency can do</p> <p>18 and how many of these things it can actually</p> <p>19 implement.</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. In one of your speeches that you</p> <p>22 gave, the Hastings speech, when you -- I forgot</p>	<p>1 database that the FDA keeps of these medical</p> <p>2 device reports that anyone can go and search?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: And I have done that</p> <p>5 for medical devices.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. You did that for the -- which</p> <p>8 devices did you do that for?</p> <p>9 A. I did that -- I don't want to say I</p> <p>10 did it for everything. Actually, I did do it</p> <p>11 for each of the devices in my report, I think,</p> <p>12 but I only searched for -- I searched -- so I</p> <p>13 searched deaths and your devices.</p> <p>14 So I did it for each of the devices</p> <p>15 in my report, the number of deaths and death</p> <p>16 reports.</p> <p>17 Q. And you understand that the FDA's --</p> <p>18 that MAUDE database -- there is a number of</p> <p>19 statements on the web site about the</p> <p>20 limitations of that data?</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 THE WITNESS: As you would expect in</p>

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1 any kind of adverse event reporting, there are 2 statements on the error system, and there are 3 statements on the adverse -- the MAUDE 4 database.	1 It's not in the right place. You don't need 2 epidemiology to be able to do that. So it 3 depends on the question you are asked. 4 BY MR. JESSEE:
5 BY MR. JESSEE: 6 Q. I mean, with those statements, 7 instead of me going through each of them, would 8 you -- are there any that you disagree with the 9 limitations on that data?	5 Q. Well, let's just look at the web 6 site page then. 7 A. Okay.
10 MS. STOKES: Objection. Form. 11 THE WITNESS: As an epidemiologist, 12 I would -- we could probably, on each one of 13 those, spend an hour, if you had to pull up the 14 specific ones, because they tend to be 15 generalities.	8 MR. JESSEE: What number are we on? 9 THE REPORTER: 21. 10 (Deposition Exhibit 21 was marked 11 for identification.) 12 BY MR. JESSEE:
16 And I think I know -- I certainly 17 know the ones in a drug sense almost by heart, 18 but this is -- on the MAUDE data sheet, I use 19 it, and I use the pulldowns. 20 If you want to talk about a specific 21 one, I'm happy to.	13 Q. Dr. Kessler, this is something -- 14 this web site page, you have obviously seen 15 before. 16 A. Correct. 17 MS. STOKES: Objection. Form. 18 Foundation. 19 MR. JESSEE: About him seeing it 20 before? 21 MS. STOKES: This exact -- 22 THE WITNESS: There's actually
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1 Q. Okay. And you realize that there is 2 certain -- that they don't establish -- based 3 on just what you see, the complaints in the 4 MAUDE database aren't going to establish 5 causation, for example, right? 6 MS. STOKES: Objection. Form. 7 Argumentative. 8 THE WITNESS: Maybe yes and no would 9 probably be the right answer to your question. 10 I mean, you know -- I mean, it's not rocket 11 science as it is. 12 Sometimes you take a drug. You 13 develop a heart attack. There is a high 14 incidence of -- there is a background 15 incidence, a heart attack. 16 You have a mesh. It's in the 17 intestine. It perforates the intestine. There 18 is not a question of causation there. 19 So you have to be more specific when 20 you talk about causation, I mean, and what -- 21 and sometimes medical devices is easier, right? 22 I mean, the device has migrated.	1 pulldowns, I think, on the event type. This 2 doesn't quite capture the screenshot. I think 3 there is pulldown menus, etc., but it's pretty 4 good. 5 BY MR. JESSEE: 6 Q. And I will represent to you I 7 printed this off yesterday. 8 A. But you know for event type there is 9 a little arrow there. 10 Q. Right. And that's just when you are 11 printing. 12 A. Exactly. That's the only point I am 13 making. 14 Q. Okay. And it notes in here that 15 there are limitations, like we said, to this 16 passive surveillance system, right? 17 MS. STOKES: Where are you -- 18 objection. Where are you talking about? 19 THE WITNESS: So it's passive with 20 regard to users and physicians. It's not 21 passive when it comes to manufacturers. 22 BY MR. JESSEE:

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<p>1 Q. Okay. And let's see. I am reading 2 the second paragraph, where it says -- 3 A. Tell me which paragraph you're at. 4 Q. Second. 5 "Although MDRs are a valuable source 6 of information, this passive surveillance 7 system has limitations, including the potential 8 submission of incomplete, inaccurate, untimely, 9 unverified, or biased data. In addition, the 10 incidence or prevalence of an event cannot be 11 determined from this reporting system alone, 12 due to underreporting of events, inaccuracies 13 in reports, lack of verification that a device 14 causally reported event, and lack of 15 information about frequency of device used." 16 Do you disagree with any of that? 17 MS. STOKES: Objection. 18 THE WITNESS: I am happy to discuss 19 every single parenthetical with you. 20 BY MR. JESSEE: 21 Q. My question is, do you disagree with 22 that statement that is on FDA's web site there?</p>	<p>1 modeling tools that do allow you to use 2 databases to compare one versus the next. 3 Now, that is not this data alone, 4 but that would be -- I mean, people have spent 5 their -- I mean, there are statisticians who 6 are expert in world class, and there is 7 methodology to do that. 8 BY MR. JESSEE: 9 Q. Would you agree that to establish a 10 complaint rate though, you can't just look at 11 the complaints in isolation? You have to look 12 at the total number of uses of the device? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: I would even go one 15 step further. I mean, because of the 16 underreporting of -- in general, you are not 17 going to get a true incidence rate. You can 18 get a relative incidence rate. 19 There may be useful information that 20 you can pull by using those models, but that's 21 what pharmacovigilance -- pharmaco device 22 vigilance experts spend their careers working</p>
<p>1 MS. STOKES: Objection. Form. 2 THE WITNESS: Yes. I mean, I don't 3 think all of it is accurate. I think there is 4 nuances to each parenthetical that I am happy 5 to discuss with you. 6 BY MR. JESSEE: 7 Q. Let's go down then. I want to look 8 at the third bullet point, where it says -- I'm 9 sorry. Let's look at the second bullet point, 10 where it says, "MDR data alone cannot be used 11 to establish rates of events, evaluate a change 12 in event rates over time, or compare event 13 rates between the devices." 14 Would you agree with that statement? 15 MS. STOKES: Objection. Form. 16 Compound. 17 THE WITNESS: So, I mean, there is a 18 lot of truth in that statement. There are 19 pharmacovigilance tools that have developed 20 that involve -- as long as you use the word alone, I would agree with you in general part, but there are very sophisticated statistical</p>	<p>1 on. 2 BY MR. JESSEE: 3 Q. Do you represent yourself to be a 4 pharma -- what was that phrase you used? 5 A. Yeah. I have been specially 6 trained. I think that -- and I am a professor 7 of statistics. I tend to allow some of the 8 statisticians to actually do the run, but I 9 have been specially trained, and I did the 10 MedWatch program. 11 Q. Right. But you didn't do that 12 analysis in this case though, right? 13 MS. STOKES: Objection. Form. 14 THE WITNESS: I did not. I don't 15 think I rely on the incidence rates. There may 16 be some discussion. We talked about an 17 infection, as far as notice of a higher 18 infection rate in the report, but I don't -- 19 that's where it comes up, I believe. 20 BY MR. JESSEE: 21 Q. Do you know the total number of 22 devices Bard has sold for any of the -- and I</p>

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1 am trying to say the -- when I say just maybe 2 the subject devices, I'm referring just to the 3 PerFix Plug, Ventralex. 4 A. You know, I -- 5 MS. STOKES: Objection. Form. 6 Vague. Speculation. 7 BY MR. JESSEE: 8 Q. I am happy to go through the whole 9 list for you, Doctor, but do you know what I'm 10 referring to? The PerFix Plug, the Ventralight 11 ST, Ventralex, PET and PDO, and the 3DMax. 12 My question then is, do you, for 13 those subject devices, know the total number of 14 units that Bard sold of each of those? 15 MS. STOKES: Objection. 16 THE WITNESS: I mean, there are 17 sheets that I can pull that do have that data 18 at different points in time. And, again, it's 19 a little -- it's not just implant -- is it 20 implanted? Is it sold? Is it on shelves? 21 Much of the Bard data is in terms of 22 revenue, but, certainly, in units sold.	1 MS. STOKES: What page are you on? 2 MR. JESSEE: Paragraph 31, Page 6. 3 THE WITNESS: That's why I am in 4 processing. 5 Page 31. 6 MS. STOKES: Page 10. 7 THE WITNESS: Page 10, Paragraph 31. 8 And the definition that you are quoting from is 9 which paragraph? Paragraph 31. 10 BY MR. JESSEE: 11 Q. Paragraph 31. 12 A. Yeah. I think that's fair. 13 Q. Let's look at Page, this time, 38, 14 Paragraph 103. 15 A. Correct. 16 Q. All right. In that paragraph, you 17 state that, "Obviously, FDA's review has an eye 18 towards" -- 19 A. Wait a second. I'm on Paragraph 38. 20 Q. We're getting a little confused 21 here. This is Page 38. 22 A. Sorry.
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1 BY MR. JESSEE: 2 Q. It's not in your expert report, as 3 far as the number of units sold? 4 A. I'm certainly aware that that would 5 be -- that's potential denominated data, but, 6 again, because there's such underreporting, in 7 general, in medical devices, you focus on 8 complaints. 9 I mean, when I do quality control, I 10 mean, the FDA certainly wants MDR reports, but 11 it's really the trend you want to focus on. 12 Because there is a vast underreporting in 13 general, you tend to focus on complaints. 14 Q. Let's talk about 510(k) for a little 15 bit. I want to look at Page 10, Paragraph 31 16 of your report. 17 A. Happy to do that. 18 Q. Basically, you set forth a standard 19 that substantial equivalence means that the 20 device is at least as safe and effective as the 21 predicate, correct? 22 THE WITNESS: He does talk fast.	1 Q. That's all right. 2 A. I'm sorry. 3 Q. 103 is the paragraph. 4 Dr. Kessler, in that paragraph, you 5 state that, "Obviously, FDA's review has an eye 6 towards safety and effectiveness, and FDA will 7 identify information that appears to be false 8 or misleading." 9 That's your statement in your 10 report, correct? 11 A. Correct. 12 Q. And while the standard of review is 13 certainly different and is not a finding that 14 the device is safe and effective though, safety 15 and effectiveness does factor into the FDA's 16 review. 17 It's on the reviewer's mind, right? 18 MS. STOKES: Objection. 19 Argumentative. Form. 20 THE WITNESS: How much time do you 21 have? 22 BY MR. JESSEE:

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<p>1 Q. Well, can you answer that yes or no?</p> <p>2 Does safety and effectiveness factor into the</p> <p>3 FDA's review?</p> <p>4 MS. STOKES: Objection.</p> <p>5 THE WITNESS: You asked me whether</p> <p>6 it had an effect on someone's mind.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. That is maybe a poor thing, but you</p> <p>9 say here that it has an eye towards safety and</p> <p>10 effectiveness.</p> <p>11 What do you mean by that?</p> <p>12 A. The standard, as you cite -- cited</p> <p>13 me correctly, is, are you as safe as something</p> <p>14 on the market?</p> <p>15 Q. That's a substantial equivalence?</p> <p>16 A. Yeah. So the whole premise, the</p> <p>17 whole statute was based on, okay, especially</p> <p>18 when you went through these classes, this whole</p> <p>19 Class II, and if there is stuff on the market</p> <p>20 that were grandfathered, if you are as safe as</p> <p>21 something that's already on the market and that</p> <p>22 was determined to be safe, right, then we are</p>	<p>1 substantial equivalence, if something comes to</p> <p>2 our -- we will try to do more to establish</p> <p>3 safety and effectiveness.</p> <p>4 The problem is, you are trying to</p> <p>5 put a round hole in a square peg, because the</p> <p>6 standard is, you are as safe as something</p> <p>7 already on the market, not that there is</p> <p>8 independence.</p> <p>9 So there is elements where you see</p> <p>10 FDA sometimes doing a de novo 510(k), where you</p> <p>11 say, Okay. You can come on the market under</p> <p>12 the 510(k), but you have to do human clinical</p> <p>13 trial.</p> <p>14 No one did that here, for example,</p> <p>15 on the Composix mesh. It was supposed to be as</p> <p>16 safe as something on the market, but it was a</p> <p>17 new use, and no one said you could, under the</p> <p>18 510(k) process, have said here, Well, we're</p> <p>19 going to put this in the intraperitoneal, and</p> <p>20 no one put peritoneal -- a polypropylene and</p> <p>21 ePTFE together in the abdominal cavity. That's</p> <p>22 a new issue. We have not established the</p>
<p>1 okay. That's the hope.</p> <p>2 The problem is, if you are as safe</p> <p>3 as something on the market, but you never</p> <p>4 established safety to begin with, how is that</p> <p>5 okay?</p> <p>6 So there is major criticism and</p> <p>7 controversy, but the law is the law. And FDA</p> <p>8 is stuck with substantial equivalence.</p> <p>9 And so FDA, because -- not just me</p> <p>10 saying it, but the National Academic of</p> <p>11 Sciences. The IOM has said it. FDA has come</p> <p>12 under substantial criticism for allowing</p> <p>13 devices to get on to this market without a</p> <p>14 thorough -- without a safety and effectiveness</p> <p>15 review under this -- where safety and</p> <p>16 effectiveness was never established.</p> <p>17 So to do that, you see at different</p> <p>18 points in time -- you see it most recently, I</p> <p>19 think, in Commissioner Gottlieb in 2018, 2019,</p> <p>20 the last set of reviews, Okay. We're going to</p> <p>21 fix that. We're going to try to incorporate</p> <p>22 more -- if we see a safety problem, meaning</p>	<p>1 safety. So let's do a de novo clinical trial</p> <p>2 and do that under the 510(k) process.</p> <p>3 Q. So the FDA actually requires</p> <p>4 clinical trials for some 510(k) devices, right?</p> <p>5 A. It can.</p> <p>6 Q. And it does. It does for IVC</p> <p>7 filters, for example. It requires clinical</p> <p>8 trials for quite a number of those, doesn't it?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: Again, what kind of</p> <p>11 clinical trials, et cetera?</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. My question though is that it does</p> <p>14 require clinical trials for IVC filters. And I</p> <p>15 have seen you testify to it, and I have seen --</p> <p>16 MS. STOKES: Let him answer. Same</p> <p>17 objection also.</p> <p>18 THE WITNESS: At different points in</p> <p>19 time, there may have been certain human studies</p> <p>20 done. I don't believe in Bard IVC there were</p> <p>21 adequate and well controlled clinical trials</p> <p>22 that were required.</p>

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<p>1 BY MR. JESSEE:</p> <p>2 Q. That wasn't my question though. It 3 is not just for Bard's IVC filters have been -- 4 clinical trials have been required. There is 5 -- it can require -- the FDA has the power to 6 require those clinical trials, both premarket 7 and postmarket, don't they?</p> <p>8 MS. STOKES: Objection. Form.</p> <p>9 THE WITNESS: Again, I'd have to 10 look at the statute. The FDA has moved towards 11 the point where it says, In certain instances, 12 we're going to require more in the 510(k) 13 process to give the public confidence.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. And there's certain information that 16 is submitted in the 510(k) process that goes to 17 safety of the device and irrelative to the 18 safety and effectiveness of the predicate.</p> <p>19 Would you agree with that?</p> <p>20 MS. STOKES: Objection. Form.</p> <p>21 Argumentative.</p> <p>22 THE WITNESS: Yeah. I think that's</p>	<p>1 That is safety data, biocompatibility testing, 2 isn't it?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: Sure. That is 5 standard carcinogenicity, reproductive, certain 6 mechanical testing, but that gets to the whole 7 point.</p> <p>8 Those things don't go to, really, 9 the kind of clinic -- those don't go to the 10 major clinical questions that -- you know, that 11 you would get out of a human trial.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. On Paragraph 104 of your report you 14 state that: "In my opinion, the information 15 required and not required to support a 510(k) 16 application is appropriate for the 510(k) 17 process because that process evaluates 18 substantial equivalence, specifically, whether 19 a device is as safe and effective as the 20 predicate device and if it raises new questions 21 of safety and effectiveness not present for the 22 predicate."</p>
<p>1 fair. I mean, it has to be as safe as the 2 predicate.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Right. So like biocompatibility 5 testing, for example, that is not necessarily 6 -- often in 510(k)'s from implantable devices 7 there will be biocompatibility testing for that 8 device submitted with the 510(k), correct?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 THE WITNESS: Well, biocompatibility 11 should be done as part of the GMP of all 12 510(k). I mean, there should -- but that 13 doesn't tell you -- that is questioning 14 genericity, reproductive, tox --</p> <p>15 That's not clinical testing. That's 16 not telling you whether the device is going to 17 move, it's going to perforate. It's going to 18 end up somewhere it shouldn't. That is not 19 biocompatibility testing.</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. And I wasn't suggesting it was. I'm 22 saying though that is one piece of the puzzle.</p>	<p>1 Is that statement still accurate 2 today?</p> <p>3 A. Let me just read.</p> <p>4 MS. STOKES: Which paragraph were 5 you just reading from?</p> <p>6 MR. JESSEE: 104. Just the next one 7 down.</p> <p>8 THE WITNESS: Yeah. So what this 9 means is that -- just so I can make sure 10 everyone -- that I am clear here, is what is 11 meant when FDA says it's going to -- the number 12 of times where FDA has upped the scientific 13 requirements of the 510(k) or even required de 14 novo clinical trials, those de novo clinical 15 trials are the result -- I mean, they are not 16 to determine independent safety and 17 effectiveness, but if you read FDA, they are 18 saying their authority to require those 19 clinical de novo clinical trials are to 20 determine whether that a new device raises new 21 questions of safety and effectiveness and goes 22 to substantial equivalence. That's the</p>

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1 authority. 2 BY MR. JESSEE: 3 Q. The premarket authority you are 4 talking about? 5 A. That's the premarket -- the 6 authority to require de novo 510(k). 7 Q. Right. With clinical studies 8 though -- 9 A. De novo clinical studies. Those 10 clinical studies are not -- FDA doesn't have 11 the authority to require them to establish 12 independent safety and effectiveness. 13 FDA has an ability to require those 14 studies to determine whether it's substantial 15 equivalence. That's what I mean in that 16 statement. 17 Q. We are talking about premarket 18 clinical studies in that context, because the 19 FDA has the authority to require postmarket 20 clinical studies as well? 21 A. It has 522 orders, yes. I mean -- 22 Q. And it can order those for	1 A. Sure. 2 Q. And this is something I know you are 3 very familiar with. 4 A. Sure. 5 Q. And you will not be surprised to 6 know I have read a bunch of your testimony on 7 this, including stuff as recently as last year 8 about -- you agree with the statements in here 9 that the safety and effectiveness factor into 10 the FDA's review of 510(k)s, right? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I would phrase it the 13 way I have phrased it in the report and the way 14 I have talked about. I think there is -- there 15 is an element -- there is an element of that. 16 I think FDA tries to incorporate that, but in 17 the end, it's substantially -- a substantial 18 equivalence standard. 19 BY MR. JESSEE: 20 Q. So, for example, on Page 6 -- and, 21 again, I'll be happy to show it to you. I know 22 you've read these. You have been asked about
1 implantable devices over a year. It has the 2 authority to order those? 3 A. And has done those. For example, in 4 other contexts and other types of mesh, FDA has 5 done that. 6 Q. But not in any of the Bard mesh 7 products, correct? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: Not that I am aware 10 of. It has done that in other kinds of Bard 11 mesh products. 12 MR. JESSEE: All right. I'm going 13 to go ahead and mark Exhibit 22. 14 (Deposition Exhibit 22 was marked 15 for identification.) 16 BY MR. JESSEE: 17 Q. I'm not going to spend much time, 18 because I know you were asked about this a lot, 19 and I know you are familiar with it, but this 20 is the FDA's 2014 guidance on the 510(k) 21 program, evaluating substantial equivalence and 22 premarket notifications.	1 these and read this extensively, but it says: 2 "The principles of safety and effectiveness 3 underlie the substantial equivalence 4 determination in every 510(k) review." 5 A. Yes. But you are reading a portion 6 of this, and there's other portions, but in the 7 end, it is a substantial equivalence 8 determination. That's not changed. You have 9 to be as safe as something already on the 10 market. 11 Q. You mean -- I'll read the sentence 12 before it. 13 "The 510(k) review standard is 14 comparative, whereas the PMA standard relies on 15 an independent demonstration of safety and 16 effectiveness." 17 A. Show me where you are. I apologize. 18 Q. Right here in the statutory 19 standard. 20 A. Thanks. 21 Q. I will try to slow down while I'm 22 reading this too. I apologize.

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1 "The 510(k) review standard is 2 comparative, whereas the PMA standard relies on 3 an independent demonstration of safety and 4 effectiveness. Nonetheless, the principles of 5 safety and effectiveness underlie the 6 substantial equivalence determination in every 7 510(k) review." 8 Do you agree with those two 9 sentences? 10 MS. STOKES: Objection. Form. 11 THE WITNESS: As generalities, I 12 think that they -- I think that's aspirational. 13 BY MR. JESSEE: 14 Q. So you don't believe that that is 15 accurate, that statement in this FDA guidance? 16 MS. STOKES: Objection. Asked and 17 answered. 18 THE WITNESS: I think it's -- the 19 answer is yes and no. I think it's 20 aspirational. I think that is what FDA would 21 like to be able to think. I think there is 22 substantial limitations of substantial	Page 370 1 changes since its inception. 2 Do you agree with that? 3 A. Well, we've talked about 1990 -- 4 Q. That was one -- the big one, right? 5 A. That was -- exactly. 6 Q. The -- and do you agree that the -- 7 over the past decade the 510(k) reviewed has 8 become more stringent? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: Over the last decade, 11 I'm not -- depends on what metric you use. I 12 think that the answer -- it would depend on the 13 individual review division. The -- the 14 answer's probably not. Because in the end you 15 see when -- when did Gottlieb say, "Hey" -- he 16 basically, you know, caved in 2018 and 2019. 17 And he said -- and said, "Look, we -- this -- 18 this process has not worked." 19 I mean he didn't quite go that -- I 20 mean -- but -- but he basically said -- I'm 21 saying the ION come -- came out, said, "510(k) 22 has to be changed. It's not working. It's not
Page 371 1 equivalence, because that's the statutory 2 standard. 3 So you are trying to put -- either 4 the standard is, you have to be as safe as 5 something on the market or you got to be safe 6 and effective. 7 And you can't make 510(k) into an 8 independent determination as safe and 9 effective. The statute doesn't -- that is not 10 what the statute says. 11 So FDA is constantly criticized for 12 letting these devices on the market without 13 independent safety and effectiveness, and it 14 gets beaten up. 15 So it says, Well, we have an eye 16 towards safety and effectiveness, but, again, 17 it's more complicated than any one sentence 18 would have you -- that you can capture in one 19 sentence. 20 BY MR. JESSEE: 21 Q. The -- you say in your report that 22 the 510(k) has undergone a number of statutory	Page 371 1 an independent assurance to safety and 2 effectiveness." 3 FDA fought that. It did this in 4 2014. It issued this guidance. In 2018 there 5 was -- 2018, 2019, there was a plan. And right 6 before Scott left, there was a -- basically 7 saying, "Look, we have to -- we have to figure 8 out how to change the whole process." 9 So there -- there were -- there were 10 some changes over time. But I think it's -- I 11 don't think it's fundamentally different over 12 the last decade. 13 BY MR. JESSEE: 14 Q. And you previously testified that -- 15 and I think we can agree that the FDA can ask 16 for additional information when reviewing 17 510(k)s, and they -- they often do, right? 18 A. Fair. 19 MS. STOKES: Objection. Form. 20 BY MR. JESSEE: 21 Q. And I think your -- in specific 22 words I found, you said that you rarely see

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<p>1 510(k) that the FDA asks no questions 2 whatsoever.</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: That may be and over 5 -- I wouldn't wanted to say "never." But --</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. I think "rarely" is the -- the word.</p> <p>8 A. Yeah. I -- I think -- I think that 9 would be fair.</p> <p>10 Q. Okay. The -- did you review the 11 Federal Register proposed rule for -- from 1982 12 related to a surgical mesh?</p> <p>13 A. The classification?</p> <p>14 Q. Yeah. The proposed classification?</p> <p>15 A. I -- at some point in time. It's 16 ringing a bell. Because it wasn't just hernia 17 mesh, I believe, right?</p> <p>18 MR. JESSEE: Yep. We'll take a look 19 at it.</p> <p>20 Let's actually -- let's take a 21 couple-minute break so I can get my documents 22 in order.</p>	<p>1 classification of surgical mesh as a Class II 2 device.</p> <p>3 The second one is going to be a 4 document -- and FDA web site on hernia surgical 5 mesh implants.</p> <p>6 And this is -- you've reviewed this 7 on the FDA web site, correct?</p> <p>8 And let me --</p> <p>9 A. Yeah.</p> <p>10 Q. And -- I'm sorry.</p> <p>11 You have?</p> <p>12 A. Yes.</p> <p>13 Q. And just --</p> <p>14 A. I -- I reviewed this. I don't know 15 which version. I assume this is the current 16 version.</p> <p>17 Q. Yeah.</p> <p>18 A. Yeah. I've seen that.</p> <p>19 Q. Okay. And I -- just for the record, 20 the first -- the Federal Register document I 21 handed was Exhibit 23. The FDA remember web 22 site on hernia mesh is Exhibit 24.</p>
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<p>1 THE VIDEOGRAPHER: We are going off 2 the record.</p> <p>3 This is the end of Media Unit No. 3.</p> <p>4 The time is 2:01.</p> <p>5 (A short recess was taken.)</p> <p>6 THE VIDEOGRAPHER: We are going back 7 on the record. This is the start of Media Unit 8 No. 4.</p> <p>9 The time is 2:21.</p> <p>10 (Deposition Exhibit 23 was marked 11 for identification.)</p> <p>12 (Deposition Exhibit 24 was marked 13 for identification.)</p> <p>14 (Deposition Exhibit 25 was marked 15 for identification.)</p> <p>16 (Deposition Exhibit 26 was marked 17 for identification.)</p> <p>18 BY MR. JESSEE:</p> <p>19 Q. Dr. Kessler, I'm going to hand you a 20 few exhibits, ask you questions about them.</p> <p>21 The first one is going to be the 22 Federal Register that I referenced about the</p>	<p>1 I'm now handing you Exhibit 25, 2 which is the FDA activities --</p> <p>3 A. Let's -- I want to make this look a 4 little better.</p> <p>5 Q. FD --</p> <p>6 A. 127.</p> <p>7 Q. FDA activities on the 8 urogynecological mesh. And this is, again, 9 from the FDA website.</p> <p>10 And then Exhibit 26 is the Guidance 11 for Preparation of Premarket Notification 12 Application for Surgical Mesh.</p> <p>13 And this is --</p> <p>14 A. This is --</p> <p>15 Q. -- Exhibit --</p> <p>16 A. -- the '99 document.</p> <p>17 Q. Yes.</p> <p>18 A. Sure.</p> <p>19 Q. And these are all documents that 20 you've reviewed?</p> <p>21 A. At different point in time.</p> <p>22 Q. Okay. Let's focus on the Federal</p>

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1 Register classification. And if you could, 2 please, sir, it's on Page 2817 of the Federal 3 Register where it discusses the panel and FDA's 4 finding and classification of surgical mesh. 5 A. Correct. 6 Q. And do you see generally where that 7 starts at the bottom of the first column? 8 A. FDA agrees? Is that what -- 2817? 9 Q. I'm looking at the Section 878.3300, 10 the bottom of the -- 11 A. I'm sorry. 12 Q. -- left-hand column. 13 A. Page 2817? 14 Q. Yes. 2817. 15 A. 7. Bottom of -- 16 Q. Left -- left. 17 A. Right. Left column, Section 873 18 [sic]. Okay. 19 Q. Right. 20 A. Surgical mesh. 21 Q. And in this Federal Register, 22 there's a number of different device	1 THE WITNESS: No, no, no, no -- 2 MR. JESSEE: -- by no means want to 3 interrupt -- 4 THE WITNESS: -- no, no, no. That's 5 not what -- 6 THE VIDEOGRAPHER: We are going off 7 the record. 8 The time is 2:24. 9 (A short recess was taken.) 10 THE VIDEOGRAPHER: We are going back 11 on the record. 12 The time is 2:26. 13 BY MR. JESSEE: 14 Q. Doctor, in the 1982 Federal Register 15 discussing the classification of surgical mesh 16 as Class II, in the middle column you'll see at 17 the top of the page they give examples of 18 surgical mesh. And one of them is metallic and 19 polymeric mesh for hernia repair. 20 Do you see that? 21 A. Correct. 22 Q. And in this Federal Register, the
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1 classification panels that make a 2 recommendation to the FDA on what 3 classifications surgical mesh should be. 4 MS. STOKES: Objection. Form. 5 MR. JESSEE: And, Doctor, if we need 6 to take -- go off the record again so you -- 7 THE WITNESS: No. It's just -- 8 MR. JESSEE: -- can take that, it's 9 fine. 10 THE WITNESS: That is actually a -- 11 a patient. But I -- 12 MR. JESSEE: I'm more than happy to 13 stop and let you take that. Why don't you -- 14 THE WITNESS: Let -- let -- 15 MR. JESSEE: Let's go off the 16 record, please. 17 THE WITNESS: That -- that -- that's 18 all right. 19 MR. JESSEE: You sure? 20 THE WITNESS: That's -- it's going 21 to be a patient, but that's -- 22 MR. JESSEE: I certainly --	1 FDA actually discusses specific articles 2 looking at hernia repair, right? 3 A. Sure. It -- it -- it -- it has a 4 record of the -- based on the clinical views 5 back in the '80s. 6 Q. Okay. At that time in 1982 7 polypropylene hernia mesh had been on the 8 market for quite a while, right? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: Several decades. 11 BY MR. JESSEE: 12 Q. The -- if you look in the middle 13 column again, the panel -- the panels that -- 14 the FDA advisory committee panels recommended 15 Class II, and they state that -- 16 A. You're -- you're -- you're -- just 17 show me where you are. I'm sorry. You're -- 18 Q. Sure. Middle column where it says 19 "Recommended classification Class II." 20 A. So I'm on middle column, No. 4? No. 21 3? 22 Q. No. 2.

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<p>1 A. No. 2. Thanks.</p> <p>2 Q. Yep?</p> <p>3 A. Thank you.</p> <p>4 Q. And this is generally how these work, right, the federal registers, is that they'll say the -- the panel's recommendation for the classification, and then the FDA can either agree or disagree, right?</p> <p>9 A. Correct.</p> <p>10 Q. And here the panel states -- and I'm looking at No. 3 now, that they say the panels believe the device has an established history of safe an effective use.</p> <p>14 Do you see that where I am?</p> <p>15 A. The panels recommend that surgical mesh be classified, believe the materials used in the device should -- should meet a generally accepted -- give me wherever you are.</p> <p>19 Q. The -- in the --</p> <p>20 A. Panels believe that general controls alone would not --</p> <p>22 Q. Yep. Right before that.</p>	<p>1 -- states: "Although this device is an implant" -- do you see where I'm reading, 3 Doctor?</p> <p>4 A. Right.</p> <p>5 Q. I'm sorry. Did you --</p> <p>6 A. I'm there. Sure.</p> <p>7 Q. Okay. "Although this device is an implant, the panels believe that premarket approval is not necessary to provide reasonable assurances of the safety and effectiveness of the device."</p> <p>12 A. Uh-huh.</p> <p>13 Q. See that part.</p> <p>14 And that's the panel's conclusion?</p> <p>15 MS. STOKES: Objection.</p> <p>16 THE WITNESS: For --</p> <p>17 MS. STOKES: Form.</p> <p>18 THE WITNESS: For that device, for its in -- as its -- for the intended uses for the way it was being used back in the '80s.</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. Yeah.</p>
<p>1 A. Sorry. The orthopedic device panels recommend acetabular mesh --</p> <p>3 Q. So if you look at No. 3, Doctor.</p> <p>4 A. Yeah. I'm in 3.</p> <p>5 Q. "Summaries of reason for recommendation."</p> <p>7 Do you see that?</p> <p>8 A. Just hold up yours so you can show me.</p> <p>10 Q. Right -- right where the No. 3 is.</p> <p>11 A. Okay. Summary of reasons. Yeah.</p> <p>12 Q. Yeah. And they say --</p> <p>13 A. Sorry.</p> <p>14 Q. -- "Panels recommend that surgical meshes be classified as a Class II performance standards. Does the panels believe the device has an established history of safe and effective use?"</p> <p>19 Do you see that?</p> <p>20 A. Correct.</p> <p>21 Q. The -- and if you go down a little bit, about halfway down that paragraph, it talk</p>	<p>1 And so in No. 4 here, it states -- you see "The summary of data on which the recommendation is based"?</p> <p>4 And this is the panel's recommendation?</p> <p>6 A. Right.</p> <p>7 Q. It states: "The panel based their recommendation on the panel members' personal knowledge of and clinical experiences with" --</p> <p>10 A. I see that.</p> <p>11 Q. -- "the device and on a review of the literature"?</p> <p>13 A. Correct.</p> <p>14 Q. And if we go farther down on this -- in the same column, it -- we get the FDA's position on the classification of surgical mesh, right?</p> <p>18 A. FDA agrees?</p> <p>19 Q. Right.</p> <p>20 And that's that -- where it says "The FDA agrees that the panel's recommendations"...</p>

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1 Do you see that part?	1 MS. STOKES: Argumentative.
2 A. Right.	2 THE WITNESS: This was based on how
3 Q. And the next sentence states:	3 the device was used back in 1982. And if the
4 "Although the device is an implant, the agency	4 devices were the devices -- the same as the
5 believes that premarket approval is not	5 devices in 1982, I don't think we would be
6 necessary because of the extensive clinical	6 sitting here.
7 usage of surgical mesh over a long period of	7 BY MR. JESSEE:
8 time and because there is sufficient	8 Q. Do you know if the FDA has reviewed
9 information available to establish a	9 clinical literature on hernia mesh more
10 performance standard that would provide	10 recently?
11 reasonable assurance of safety and	11 MS. STOKES: Objection. Form.
12 effectiveness of the device"?	12 Vague. Calls for speculation.
13 A. As it was being used back then.	13 THE WITNESS: I can tell you there
14 That's not the issue here.	14 is -- there's -- sometimes there's literature.
15 Q. And it was being used back then as a	15 We'd have to go through each 510(k) and each
16 polypropylene --	16 medical officer review.
17 A. Flat --	17 BY MR. JESSEE:
18 Q. -- mesh, right?	18 Q. Okay. And I have an easier way we
19 A. -- mesh.	19 can do it here.
20 MS. STOKES: Objection. Form.	20 But the -- looking just at here
21 THE WITNESS: I mean -- well, first	21 though, we -- we mentioned there's actual
22 of all, this was flat mesh. You didn't have	22 citations to specific references here in
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1 composite meshes. You didn't have plugs. You	1 literature?
2 didn't have intended uses interabdominal [sic].	2 A. Sure.
3 This is just surgical mesh. This is flat mesh	3 Q. Do you know how many of these deal
4 back then.	4 with the Bard Marlex mesh?
5 No -- no one's saying -- and -- and	5 A. I -- you can count them. I have not
6 all this says is, if you are as -- you have to	6 counted them.
7 be substantially equivalent to -- this allows	7 Q. Have you reviewed the literature
8 it to be Class II, which says you got to be the	8 that the FDA cited in the classification --
9 same as that flat mesh.	9 proposed classification in 1982?
10 If you have a different intended	10 A. I looked at a number of studies
11 use, if you raise new safety questions, you	11 historically. I -- I've not necessarily looked
12 can't -- none of that -- this applies.	12 at this bibliography. But as you know, I've
13 BY MR. JESSEE:	13 cited -- I've looked at a lot of the literature
14 Q. Do you see where it says the FDA has	14 historically.
15 reviewed pertinent clinical literature on	15 Q. Let's look at -- take a look at
16 surgical meshes?	16 Exhibit 24, which is the hernia surgical mesh
17 A. Sure.	17 implants web page on the FDA web site.
18 Q. And that's something we can agree:	18 A. Right.
19 The FDA's reviewed clinical literature on	19 Q. And the FDA often includes
20 surgical mesh a number of occasions, right?	20 information about categories of devices on its
21 MS. STOKES: Objection. Form.	21 web site, right?
22 THE WITNESS: As.	22 MS. STOKES: Objection. Form.

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<p>1 THE WITNESS: Sure. Because it's -- 2 absolutely.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. And the -- if you would look at the 5 second page -- bottom of the second page where 6 it says: "Hernia repair surgery 7 complications."</p> <p>8 A. Hernia -- treatment options for 9 hernias?</p> <p>10 MS. STOKES: Second page.</p> <p>11 THE WITNESS: Sorry. Apologize.</p> <p>12 MR. JESSEE: It's all right.</p> <p>13 THE WITNESS: Right.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. The -- it states: Based on FDA's 16 analysis of medical device adverse event 17 reports in a peer-reviewed scientific 18 literature, the most common adverse event for 19 all surgical repair of hernias, with or without 20 mesh, are pain; infection; hernia recurrence; 21 scar-like tissue that sticks together; 22 adhesion; blockage of the large or small</p>	<p>1 Q. Would you expect the FDA to falsely 2 state that in their -- on their web site?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 Argumentative.</p> <p>5 THE WITNESS: I -- you -- you have 6 my answer. I mean -- I mean I don't expect FDA 7 to falsely state something. But whether this 8 was based on a comprehensive scientific 9 literature review, it depend -- I mean I 10 haven't seen that comprehensive, nor has FDA 11 put that out. That's all I'm saying.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. You'd agree that, in the 510(k)s for 14 the subject devices in this litigation, that 15 there were clinical literatures submitted with 16 several of them?</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 Vague.</p> <p>19 THE WITNESS: I think that's 20 generally true. There's literature cited, not 21 necessarily always comprehensive. And that's 22 based on the man -- what the manufacturer does.</p>
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<p>1 intestines, instruct -- obstruction in 2 parentheses; bleeding; abnormal connection 3 between organs, vessels or intestines, fistula 4 in parentheses; fluid buildup at the surgical 5 site, seroma in parentheses; and a hole in 6 neighboring tissues or organs, and then 7 perforation in parentheses.</p> <p>8 Do you see that, Doctor?</p> <p>9 A. I see that.</p> <p>10 Q. And you -- you would agree that the 11 FDA has, in relation to hernia repair, reviewed 12 scientific literature?</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: That -- that's what 15 this document says. We don't have -- I -- I 16 wouldn't want to jump -- I've not seen a 17 document from FDA -- and maybe you have and can 18 show it to me -- of the FDA's review of 19 scientific literature on this.</p> <p>20 I have not seen a White Paper or -- 21 on hernia literature. So I've not seen that.</p> <p>22 BY MR. JESSEE:</p>	<p>1 But again, most of -- we'd have to 2 go through 510(k) by 510(k). Some of the 3 initials -- again, the -- the -- the -- the 4 focus is on are you the same as something on 5 the market.</p> <p>6 So most of the paragraphs are on 7 substantial equivalence. It's not on a 8 comprehensive literature review. But we can 9 pull them up and look at them individually if 10 you want.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. And does that say in that -- 13 anywhere in the -- this document talk about 14 substantial equivalence?</p> <p>15 MS. STOKES: Objection. Form.</p> <p>16 THE WITNESS: You -- you can --</p> <p>17 MS. STOKES: You just gave it to 18 him.</p> <p>19 MR. JESSEE: No. And he's reviewed 20 it before.</p> <p>21 THE WITNESS: Yeah. I -- the -- the 22 -- I don't think substantial equivalence is --</p>

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<p style="text-align: right;">Page 394</p> <p>1 I mean is the kind of -- when you're talking to 2 the public, you know, talking about substantial 3 equivalence is not something FDA, you know -- 4 FDA doesn't say that here. That's not the 5 purpose.</p> <p>6 These are the kinds of sheets that, 7 you know, hospitals put out on certain -- in 8 certain areas to give some general information.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. And do you agree with the FDA's -- 11 what they list, based on their review of 12 adverse event reports in peer-reviewed 13 scientific literature, the most common adverse 14 events for all surgery -- surgical repair of 15 hernias with or without mesh?</p> <p>16 MS. STOKES: Objection. Form.</p> <p>17 THE WITNESS: I -- I --</p> <p>18 MS. STOKES: Compound.</p> <p>19 THE WITNESS: Again, I would -- 20 certainly I don't -- I would not agree -- I'm 21 prepared to talk about the -- the adverse event 22 profile per device. I mean I -- this</p>	<p style="text-align: right;">Page 396</p> <p>1 from your own documents. Those things should 2 be listed.</p> <p>3 But again, this is a general 4 statement. This is not -- all I'm saying is 5 this is not product by product. This is -- 6 some PR, public affairs person probably put 7 this together.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. You're -- you're speculating on 10 that, right?</p> <p>11 MS. STOKES: Objection.</p> <p>12 THE WITNESS: No. I'm -- I'm pretty 13 good at -- I mean -- the -- the --</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. All right. Who -- what do you base 16 on who wrote this on -- who wrote this?</p> <p>17 A. Because I know who -- I mean at 18 least in -- in my history of public affairs and 19 FDA, these are the kind of things FDA tends to 20 do, the -- the public affairs --</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. Back when you were commissioner in</p>
<p style="text-align: right;">Page 395</p> <p>1 amalgamation I have not issued one set of 2 adverse events for all --</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Okay. Give --</p> <p>5 A. -- lots of -- it depends on the 6 hernia mesh, I think. And I'm -- I'm --</p> <p>7 Q. Something surgeons would talk about 8 then? The --</p> <p>9 A. Sorry?</p> <p>10 Q. Something that we -- the surgeons 11 could answer then, that question, whether this 12 is the accurate description of the --</p> <p>13 MS. STOKES: Were you done with your 14 answer, Doctor?</p> <p>15 THE WITNESS: No. I -- I'm happy to 16 tell you what the answer -- it doesn't list 17 chronic pain. Chronic -- I would disagree with 18 this. Certainly when it comes, as you know, to 19 the PerFix Plug and 3DMax, chronic pain should 20 be listed.</p> <p>21 Migration should be listed. I don't 22 need the surgeons to tell me that. This is</p>	<p style="text-align: right;">Page 397</p> <p>1 1990 --</p> <p>2 A. Yeah. I mean --</p> <p>3 Q. -- to 1997?</p> <p>4 A. -- I -- we -- we -- we can determine 5 who -- which division. But this is not 6 specific. This is not the medical review 7 officers who are writing this.</p> <p>8 Q. All right. Let's look at Exhibit 9 25, which is the summary of the FDA's 10 activities on urogyneecological surgical mesh.</p> <p>11 A. Correct.</p> <p>12 Q. And you're familiar with all these 13 activities, right?</p> <p>14 You've offered opinions on them in 15 the past?</p> <p>16 A. I --</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 Compound.</p> <p>19 THE WITNESS: I'm not sure I've 20 offered opinions on every single one. I'm 21 certainly familiar with this document. And I 22 hope to forget this document.</p>

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1 BY MR. JESSEE: 2 Q. Yeah. And this document that talks 3 about -- you would agree there is a number of 4 activities the FDA took with respect to -- to 5 urogynecological surgical mesh, correct? 6 A. Correct. 7 Q. They convened -- they issued two 8 public health notifications? 9 A. They did. 10 Q. They convened an advisory panel to 11 review the -- 12 A. Correct. 13 Q. -- urogynecologic meshes? 14 A. Correct. 15 Q. They required 522 studies for 16 classes of these devices? 17 A. Eventually. 18 Q. And those being post-market clinical 19 studies, right? 20 A. Correct. 21 Q. They end up reclassifying surgical 22 mesh devices for pelvis organ prolapse from	1 A. It's my -- no, no. I -- I certainly 2 leave it to your expertise on -- 3 Q. And I actually -- 4 A. -- on POP. 5 Q. And you did a report on it. So it's 6 -- 7 A. No, no. I mean we -- we don't 8 disagree. I just don't have -- 9 Q. Okay. 10 A. -- it in my head. 11 Q. But can we agree that, with all the 12 activities we just talked about that the FDA 13 took with respect urogynecological surgical 14 mesh, they did -- have not taken any of those 15 activities with respect to hernia mesh? 16 MS. STOKES: Objection. Form. 17 BY MR. JESSEE: 18 Q. And that's a simple question. 19 Have they taken any of those 20 activities with respect to hernia mesh? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: The answer is no.
1 Class II to Class III, requiring PMAs? 2 A. Right. 3 And? 4 Q. And they ended up eventually taking 5 them from the market, right? 6 A. They pulled the -- all the products 7 from the market, right? 8 Q. Right? 9 A. So -- so -- but at an earlier stage, 10 FDA had certain pages where they didn't have 11 all this. 12 Q. Yeah. 13 And these -- those -- for those 14 pelvic organ prolapse mesh products, those came 15 on the market in the 1990s beginning and then 16 passed -- and that was the earliest ones on the 17 market? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: You have those in your 20 head. I don't have the history. 21 BY MR. JESSEE: 22 Q. Okay. And you're --	1 BY MR. JESSEE: 2 Q. Okay. The -- 3 A. I'm -- 4 Q. I thought you were done. I'm sorry. 5 A. No, no. The -- the answer is no. 6 But understand that they spent -- they had an 7 enormous problem, I mean I think over -- we 8 span, what five years, probably longer, eight 9 years, nine years -- actually, this was eight 10 years where they were saying -- basically they 11 were -- if I remember, they weren't safety 12 questions back in '08 -- I mean, if you look at 13 the FDA web site. 14 It was a difficult period of time 15 with regard to urogynecological meshes that 16 ultimately left -- led to withdrawal. So it 17 took them a decade to get there. They -- and 18 that took an enormous amount of energy from the 19 agency. 20 And there's only so many -- and that 21 was -- to its credit, that's what it -- it got 22 to the right answer. And -- but it took a

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Page 402 <p>1 decade. And it -- it took a lot out of the 2 agency to get there. And there's only certain 3 amount of resources the agency has on what it's 4 focused on.</p> <p>5 Q. The -- you mentioned earlier silicon 6 breast implants. And that was something that 7 occurred when an issue -- a controversy 8 occurred while you were a commissioner of the 9 FDA, 1990 to 1997.</p> <p>10 A. And you actually took action with 11 respect to silicon breast implants, correct?</p> <p>12 MS. STOKES: Objection. Form.</p> <p>13 THE WITNESS: I did.</p> <p>14 BY MR. JESSEE:</p> <p>15 Q. And you issued a -- a final rule was 16 issued calling for PMAs for silicon breast 17 implants in 1991, right?</p> <p>18 A. Please do the studies. Yes.</p> <p>19 Q. And in January 1992, you requested a 20 moratorium on sales of silicon breast implants 21 except for certain circumstances?</p> <p>22 A. It was basically a time-out until</p>	Page 404 <p>1 cancers, right?</p> <p>2 So I mean we didn't know exactly the 3 science. We pushed for that science. And now 4 we -- we know that there are -- those risks are 5 very real with regard to causing cancer.</p> <p>6 My point -- the -- I agree with you, 7 Counselor, that FDA can. But there's a -- 8 there's only so much energy and so much 9 resources and focus that the agency can do.</p> <p>10 I can tell you, once we were focused 11 on breast implants, it didn't allow us to focus 12 on something else at that same time. It -- it 13 just takes enormous amount -- I mean I don't 14 want to over -- that's -- that's probably a bit 15 of an overstatement. There's only so many 16 devices you can focus on like that.</p> <p>17 So I mean urogynecological, the 18 women's health issues, putting mesh in the 19 pelvis I mean certainly correctly preoccupied 20 the agency and should have. But that -- that 21 sucks up a lot of energy.</p> <p>22 That does -- don't -- the lack of</p>
Page 403 <p>1 those studies were done.</p> <p>2 Q. Okay. And then these -- those 3 implants were subsequently limited to access to 4 silicon breast implants except -- or -- for 5 cosmetic purposes to clinical trials, right?</p> <p>6 A. Correct.</p> <p>7 Q. And --</p> <p>8 A. Except for cosmetic the purposes. I 9 mean it -- it was -- it was always allowed in 10 -- for cancer patients. And again, certain 11 types -- these were silicon.</p> <p>12 Q. So we can -- can we agree on a basic 13 level that there -- there are instances where 14 the FDA has taken action when they have seen 15 concerns with safety of medical devices that 16 are -- even medical devices classified as Class 17 II?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: So sure. But 20 understand -- and that action -- just so the 21 record's fully clear, we now know those silicon 22 breast implants are associated with certain</p>	Page 405 <p>1 the agency taking action doesn't mean the 2 agency thinks it's fine or has the resources or 3 even knows the full extent of the problem. It 4 -- that's what it learned in urogynecological 5 mesh over the last decade.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Doctor, there is a -- the FDA has 8 regulations that apply to medical device 9 labeling, correct, and you discuss those in 10 your report?</p> <p>11 A. They're -- they're modeled after the 12 drug. They were enacted -- they weren't 13 enacted, but there's guidance in 1991. They're 14 -- they're -- they're -- they're modeled after 15 the drug regs.</p> <p>16 Q. Okay. And I want to talk about 17 regulations first, and then we can look at the 18 guidances. Because those are -- there's a 19 difference between regulations and guidances, 20 right?</p> <p>21 A. Sure.</p> <p>22 Q. The regulations are binding,</p>

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1 correct? 2 A. Yes. 3 Q. And the guidances are not binding, 4 right? 5 A. That's -- that's a fair -- but they 6 usually followed. 7 Q. Right. 8 And they offer the -- the FDA's 9 current thinking on a topic. 10 A. That's what -- exactly. And you're 11 reading from the quotes. You're quoting from 12 the footnotes or whatever. 13 Q. And one of the regulation -- the 14 regulation for prescription device labeling 21 15 CFR 801.109? 16 A. You just have to give it to me. I 17 don't have the number. I mean I -- one point I 18 knew it. 19 Q. Okay. Well, and it's in your report 20 too. We can look at it there. 21 A. Yeah. I -- I mean I just -- 22 Q. But it's -- you're familiar with the	1 A. You want to just give me the reg. 2 Well, it's in my report. 3 Q. Yeah. You have it. It's in your 4 report. Do you -- we can -- 5 A. Just give me the paragraph. Can 6 have the right -- 7 Q. Let's see. I know it's in here 8 somewhere. Okay. And I know -- I'm fairly 9 confident it's in your report somewhere. But 10 just to -- 109. Let me see if I can find it. 11 A. I'll get it. 12 801.109. 13 Q. Yes, sir. 14 A. Thank you, sir. 15 I should have it in a second. I 16 have it here. 17 Q. Okay. 18 A. I have it here, sir. 19 Q. All right. So this regulation 20 requires information for use, including 21 indications, effects -- 22 A. Well, just -- just -- just read it
1 reg -- the -- what they -- what it requires and 2 what it doesn't, right? 3 A. Yeah. Be a little careful. 4 Prescription labeling in this -- you're talking 5 about the regulations. 6 Q. Yes. I'm talking about the 7 regulations and the exemption from the -- at -- 8 at -- having to warn patients about -- 9 A. Because it's -- 10 Q. -- specific guidance. 11 A. -- prescription. So it's a 12 complicated -- it's a complicated statutory 13 maze in some ways. 14 Q. Right. 15 And what it says, though, it says 16 that the medical device labeling for these 17 prescription devices, in order to meet the 18 exemption of the directly warning users -- 19 patients, as it says, it must contain 20 information for use, including indications, 21 effects, routes, methods and frequency and 22 duration of administration and any relevant --	1 to me. So just -- you're under the A. 2 Which section are you reading? 3 Q. I am under -- 4 A. You're under D? 5 Q. This is C. 6 A. Thank you, sir. 7 Q. And This is a -- the section, again, 8 that you had fully discussed in your report. 9 Are you looking at your report right 10 now or the regulation? 11 A. I'm looking at the regulation, sir. 12 Q. Okay. And it talks about them -- 13 that -- the labeling, the information that must 14 be included on the prescription device 15 labeling, right? 16 A. Right. 17 Q. And it mentions, among other things, 18 any relevant hazards, contraindications, side 19 effects, precautions under which practitioners 20 licensed by law to administer the device can 21 use the device safely and for the purpose which 22 it's intended?

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1 A. That's the general -- that was 2 the -- again, pre-19 -- I believe that's 3 pre-1976 language. 4 Q. Okay. And there hasn't been though 5 any regulations to supplement -- to either 6 supplement or replace this regulation, right? 7 A. It's -- it's -- it's -- it's a 8 pre -- it's a predevice amendment section of 9 the statute. 10 Q. All right. And it -- it 11 specifically references relevant hazards, 12 contraindications, side effects and 13 precautions, correct? 14 A. Yes. 15 Q. And the focus is on sufficient 16 information for physicians using the devices to 17 use it safely and for its intended purpose? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: It's a general 20 statement on labeling, yes. 21 BY MR. JESSEE: 22 Q. And this -- these -- this labeling	1 THE WITNESS: It's a general -- 2 there's multiple different sections of the 3 label. And so, again, which section are you 4 talking about? 5 BY MR. JESSEE: 6 Q. What about when we're talking about 7 warnings? 8 MS. STOKES: Same objection. 9 THE WITNESS: I think that the 10 warnings have to talk about any relevant 11 hazards. 12 BY MR. JESSEE: 13 Q. Okay. Do you -- 14 A. I mean I think that or potential 15 safety hazards. 16 Q. Okay. Do you agree that they -- 17 that they have to have a -- that they should 18 have a medical or scientific basis to be in the 19 warning section? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: I think there has to 22 be -- I mean I think it has to either be a
1 regulation, it applies to prescription medical 2 devices regardless of what class they are, 3 right? 4 A. It's -- again, it was -- I believe 5 the statement even pre -- it was amended -- 6 I've studied the -- the history of this. But 7 this -- this goes back -- even though this was 8 amended to include device, this is old 9 language. This is general language that was 10 just sort of updated in '76. 11 Q. Would you agree that the -- it's 12 important the information in IFU have a medical 13 or scientific basis? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: What section of the 16 label are you talking about? 17 BY MR. JESSEE: 18 Q. I'm just talking, in the 19 instructions for use, would you agree that 20 information contained in there, it's important 21 to have a medical or scientific basis? 22 MS. STOKES: Objection.	1 potential -- it has to be untoward adverse 2 effect, a -- an untoward adverse effect, a 3 potential safety hazard, or an association with 4 an adverse event. 5 I mean it has to be a -- it -- I 6 mean it has to convey the information that is 7 important to a physician to use these devices 8 safely. 9 BY MR. JESSEE: 10 Q. Can you answer the question "yes" or 11 "no" whether a -- the warning -- for a warning 12 to be included in -- under FDA standards in a 13 prescription medical device instructions for 14 use, it needs to have a medical or scientific 15 basis? 16 A. I think it has to -- it has to -- I 17 think it should be based -- if it's on a -- if 18 it is a potential safety hazard, right, that 19 has -- you know, I -- within that potential 20 safety hazard has some -- has a basis, right, 21 that's scientific or medical, I think that -- I 22 wouldn't disagree.

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1 There's specific definitions of 2 safety hazards. And -- and there's reasonable 3 -- there's association with at adverse event. 4 There's -- it -- the statute is very specific 5 on what it -- and the regulations is very 6 specific on what it requires. 7 Q. The -- 8 A. I mean it should -- it -- I mean it 9 has to be -- has to be -- has to be relevant 10 hazard, right. So -- I mean in -- this -- as 11 far as this language, the language in the 12 guidance I think is potential safety hazard. 13 Q. Right. 14 And then to determine whether 15 something's a hazard or not, you have to have 16 valid scientific or medical evidence, right? 17 MS. STOKES: Objection. Form. 18 THE WITNESS: Well, if the word is 19 "potential" or -- "potential safety hazard," 20 right, we can discuss what the standard is, 21 right? But -- 22 BY MR. JESSEE:	Page 414 1 THE WITNESS: -- misbranding, 2 whether the drugs are also devices. It becomes 3 complicated. 4 So in general -- well, all -- all 5 drugs were -- all devices were drugs originally 6 under the Act. 7 MR. JESSEE: Sure. Yeah. Yeah. 8 THE WITNESS: And you have certain 9 basic -- basic provisions, right? So I mean -- 10 and basically the guide -- the guidelines did 11 copy the drug regs. 12 BY MR. JESSEE: 13 Q. So, for example, a device is 14 reasonably associated -- you said a device is 15 reasonably associated with infection, you would 16 have the duty to warn about infection, right? 17 MS. STOKES: Objection. Form. 18 THE WITNESS: You have -- you can 19 pull the guidance. If there is a -- a 20 safety -- 21 BY MR. JESSEE: 22 Q. And I don't -- I don't want to quiz
Page 415 1 Q. And -- and I think you have that in 2 your report, right? 3 A. Yeah. But I mean if -- it has to be 4 a relevant hazard or potential safety hazard. 5 Q. Okay. And "potential" is not in 6 the -- in the -- the regulation language, 7 though, right? 8 A. It's in the -- it's in the guidance. 9 Q. Right. Okay. More -- 10 A. It's in the labeling guidance. 11 It's -- it's exactly -- 12 Q. Would -- 13 A. It's in the regulations, I believe, 14 for drugs, which has basically been 15 incorporated, I mean, in the -- 16 Q. Well, you say "basically" though. 17 There's no med -- there's no 18 regulation for medical devices that say that, 19 that uses the relevant. 20 A. Well, you're going to get into the 21 issue of whether -- 22 MS. STOKES: Objection.	Page 415 1 you. So I'll just give -- I'll give you this. 2 A. Yeah. You can -- you can quiz me. 3 It's fine. I mean but if -- it'll -- it'll be 4 quicker if you give me the guidelines. 5 Q. And there's two of them actually 6 that we had -- so there's two guidances that 7 you referenced. And I'm labeling one as the 8 one from 1989, which we've marked as Exhibit 9 27. 10 (Deposition Exhibit 27 was marked 11 for identification.) 12 MS. STOKES: Is that what you just 13 gave me? 14 MR. JESSEE: Yep. I'm giving you. 15 BY MR. JESSEE: 16 Q. The other one is the Blue Book 17 Device Labeling Guidance we looked over from 18 1991? 19 THE WITNESS: Correct. When I was 20 there. 21 BY MR. JESSEE: 22 Q. And you're familiar with both these

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<p>1 and talk about them in your report?</p> <p>2 A. Yeah, I do.</p> <p>3 Q. And so --</p> <p>4 MS. STOKES: You need to and him 20</p> <p>5 -- 28 is what you were saying, right?</p> <p>6 MR. JESSEE: Thank you. That's the</p> <p>7 second one.</p> <p>8 THE WITNESS: Should we pull up --</p> <p>9 which one do you want me to go to, the later</p> <p>10 one?</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Whichever one you need to consult.</p> <p>13 I guess, before we look at these,</p> <p>14 just briefly though, let's look at 27 first,</p> <p>15 the front of it.</p> <p>16 And on the front of the document,</p> <p>17 the guidance from 1997, it says: This guidance</p> <p>18 was written prior to the February 27, 1997,</p> <p>19 implementation of FDA's good guidance</p> <p>20 practices, GDPs. It does not create or confer</p> <p>21 rights for any -- for or on any person and does</p> <p>22 not operate to bind the FDA or the public. An</p>	<p>1 that?</p> <p>2 A. Okay. So --</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: Okay. So -- so the</p> <p>5 answer is -- are you talking about a capital W</p> <p>6 warning or a little W warning? Because you --</p> <p>7 you -- you're going to go to two different</p> <p>8 sections here.</p> <p>9 MR. JESSEE: Okay.</p> <p>10 THE WITNESS: And let's just go to</p> <p>11 the -- the labelling guidance may be a little</p> <p>12 shorter, right, and may be easier to find. So</p> <p>13 let's take a -- let's take a little W warning.</p> <p>14 Okay? And let's just go to page -- it just</p> <p>15 says 814. But I assume everything is Page 814.</p> <p>16 Is that just the printout page? No.</p> <p>17 Page 8 of 14.</p> <p>18 MR. JESSEE: Yep.</p> <p>19 THE WITNESS: Right?</p> <p>20 BY MR. JESSEE:</p> <p>21 Q. Where we talk about adverse</p> <p>22 reactions?</p>
<p>1 alternative approach may be used if such</p> <p>2 approach satisfies the requirements of the</p> <p>3 applicable statutes, regulations or both."</p> <p>4 And that's true -- you agree with</p> <p>5 that, right?</p> <p>6 A. Sure. But I -- I think it's fair to</p> <p>7 say that's general boilerplate that is correct.</p> <p>8 And it usually more currently is described as</p> <p>9 it describes the agency's -- not to get</p> <p>10 subjective, but they use the term "current</p> <p>11 thinking."</p> <p>12 Q. Right?</p> <p>13 A. Right. And so that's what --</p> <p>14 Q. And -- and that would be what you</p> <p>15 just said, and that would be true for this</p> <p>16 guidance as well as the one that the -- the</p> <p>17 Blue Book memo that we've marked as 28, right?</p> <p>18 A. Correct.</p> <p>19 Q. Okay. Now, my question was in -- is</p> <p>20 if a device is reasonably associated -- the use</p> <p>21 of a device is reasonably associated with</p> <p>22 infection, is -- is there a duty to worn of</p>	<p>1 A. Yeah. So let's just -- you can lead</p> <p>2 me through questions on --</p> <p>3 Q. Okay. And it -- it states here in</p> <p>4 this guidance -- the nonbinding guidance that:</p> <p>5 An adverse reaction is an undesirable effect</p> <p>6 reasonably associated with the use of the</p> <p>7 device that may occur as part of the effect of</p> <p>8 the device or may be unpredictable in its</p> <p>9 occurrence."</p> <p>10 That -- did I read that correctly?</p> <p>11 A. Yes.</p> <p>12 And then you have to just go on.</p> <p>13 Because you may want to deal with the last</p> <p>14 paragraph. Well, actually, you -- you want to</p> <p>15 -- you -- you have both paragraphs too.</p> <p>16 Q. My -- my question is -- I want you</p> <p>17 to assume that -- or a device infection</p> <p>18 satisfies this standard here for when to</p> <p>19 include an adverse reaction.</p> <p>20 Is it your opinion that a medical</p> <p>21 device manufacturer also has to warn doctors of</p> <p>22 the symptoms of infection like fever?</p>

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<p>1 MS. STOKES: Objection. Form.</p> <p>2 Improper hypothetical.</p> <p>3 THE WITNESS: No. I -- I think if</p> <p>4 you warn of infection, I don't think that has</p> <p>5 -- I would not think that fever has to be one</p> <p>6 of the...</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. Okay. Why is that?</p> <p>9 Fever is certainly a symptom of</p> <p>10 infection, right?</p> <p>11 A. Well, the -- if you're warning</p> <p>12 about -- if you're warning about infection,</p> <p>13 those things are relevantly synonymous.</p> <p>14 Q. And is it doctors know what type --</p> <p>15 what in -- what symptoms infection can cause?</p> <p>16 MS. STOKES: Objection. Form.</p> <p>17 Calls for speculation.</p> <p>18 THE WITNESS: I -- I -- I -- I think</p> <p>19 that doctors would know that, if you put</p> <p>20 infection down, you are talking the infection</p> <p>21 could be caused by it -- would -- I mean</p> <p>22 "infection" and "fever" would be synonymous</p>	<p>1 erythema, if you -- if you -- if you had</p> <p>2 evidence of a skin infection in a derma --</p> <p>3 dermatological infection, you'd probably want</p> <p>4 to give evidence of dermatological infection if</p> <p>5 -- if that would be useful to a doctor.</p> <p>6 BY MR. JESSEE:</p> <p>7 Q. Okay. And you're saying "probably"</p> <p>8 here.</p> <p>9 I mean there's no clear</p> <p>10 black-and-white rule, right, when it comes to</p> <p>11 what -- the symptoms you should include at a --</p> <p>12 A. What --</p> <p>13 Q. -- form adverse events.</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 Vague.</p> <p>16 THE WITNESS: Yeah. I mean it's --</p> <p>17 it -- this is not -- this is pretty well agreed</p> <p>18 to. I don't think this -- this is hard. If</p> <p>19 you look at -- it is the adverse reaction</p> <p>20 that -- or the potential safety hazard or the</p> <p>21 untoward effect, depending on which section</p> <p>22 we're -- we're dealing with.</p>
<p>1 here.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. And would it be fair to say if --</p> <p>4 for adverse events that you're -- that are</p> <p>5 being warned about that doctors are aware of,</p> <p>6 you don't have to list every single symptom</p> <p>7 that an adverse event may actually cause in a</p> <p>8 patient?</p> <p>9 MS. STOKES: Objection. Form.</p> <p>10 Improper hypothetical. Calls for speculation.</p> <p>11 THE WITNESS: Yeah. I -- you're ask</p> <p>12 -- now you're getting a little vague or -- give</p> <p>13 me a specific -- I'm not very comfortable</p> <p>14 answering infection and fever.</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. Okay. Well, what about --</p> <p>17 A. And now we're --</p> <p>18 Q. -- infection in -- and redness?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 Improper hypothetical.</p> <p>21 THE WITNESS: I think, if you had --</p> <p>22 I think -- again, whether you have to have</p>	<p>1 So I think you -- the most important</p> <p>2 thing is is this information that would be</p> <p>3 relevant to a doctor, important to the doctor</p> <p>4 and the patient to know about.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Okay. And --</p> <p>7 A. So -- so -- so -- so if, in fact,</p> <p>8 right, that this caused a change in skin --</p> <p>9 this drug caused a change in skin and a</p> <p>10 redness, and that's something you should be</p> <p>11 aware of, right, then you'd want to list</p> <p>12 erythema.</p> <p>13 Q. And when you say it's for the -- the</p> <p>14 physician using the device, in this case it's</p> <p>15 going to be the hernia mesh -- the surgeon</p> <p>16 who's using the hernia mesh, right?</p> <p>17 A. Well, you'd want -- yes and no. You</p> <p>18 want to make sure that the -- that -- while the</p> <p>19 IFU goes toward, in general, the physician,</p> <p>20 this is also the basis for which the physician</p> <p>21 and the patient determined informed consent,</p> <p>22 right?</p>

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<p>1 So this is information that is 2 useful that the physician has to be -- will use 3 sometimes to -- many times to have a discussion 4 with the patients.</p> <p>5 Q. And it's certainly -- we've -- I 6 know you've testified to this numerous times.</p> <p>7 It's certainly not the only source 8 of information that physicians use for their 9 informed consent discussions, right?</p> <p>10 A. Correct. But --</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: Correct. But it -- it 13 is -- it's sort of the hub, right? I mean it 14 -- I mean there may be handbooks. There may be 15 other things written that use this. But this 16 is sort of central.</p> <p>17 So the question is should you be on 18 the lookout. Is something going to present 19 with redness, and that's something you should 20 be on the lookout for? Is this going to be -- 21 is this a chronic infection? I mean you have 22 to give me the specifics.</p>	<p>1 when you were at the FDA, you're providing 2 input on the labels?</p> <p>3 A. On the IFU. Sure.</p> <p>4 Q. The -- have you reviewed the IFUs 5 for any hernia mesh products not made by Bard?</p> <p>6 MS. STOKES: Objection. Form.</p> <p>7 THE WITNESS: I think some of them 8 are referred -- yes. I'm -- I -- I believe I 9 looked at some of the contraindications for 10 some of the other products, specifically what 11 they said about intraperitoneal use, et cetera, 12 over time.</p> <p>13 Q. And what -- what products would that 14 be?</p> <p>15 A. I think I probably looked at 16 Gore-Tek -- Gore-Tek had a dual mesh -- and 17 what was said and what were the 18 contraindications. And I think that's in the 19 510(k) -- again, in the Bard 510(k).</p> <p>20 Q. Outside of what the -- in the 21 510(k)s for predicate devices, have you 22 reviewed any hernia mesh labeling for other</p>
<p>1 BY MR. JESSEE:</p> <p>2 Q. Have you ever drafted an 3 instructions for use?</p> <p>4 A. I don't recall. I'm sure I've -- 5 I'm sure I've been involved in labeling and 6 what the label says.</p> <p>7 Q. And I'm -- and I -- I'll tell you 8 you've previously testified you've never 9 drafted an instruction for use.</p> <p>10 Is that accurate as we sit here 11 today?</p> <p>12 A. I --</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: I -- I -- I mean I -- 15 I would rarely be the person who would sit 16 there and write the whole thing out. I am 17 sure, if you look at the breast implant labels 18 and other things and the IFU and -- as they 19 went out, I'm sure there were discussions that 20 I had input.</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. Okay. And that would have been,</p>	<p>1 manufacturers?</p> <p>2 A. I mean I --</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: I think I probably -- 5 I may have looked at some of the I -- I may 6 have typed in some of the IFU language on some 7 of the other devices into Google.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. Well, and -- so you may have -- did 10 you -- I mean do you know if you did or not?</p> <p>11 A. I have a recollection of having 12 looked at. Because I was interested in what 13 some of the contraindications were.</p> <p>14 Q. Okay. And that's the -- your focus 15 of looking at those other labels was, the 16 contraindications?</p> <p>17 A. That's just what -- I mean and the 18 -- some of the warnings, yes.</p> <p>19 Q. Okay. Well, I don't see any of the 20 other IFUs listed on your long list of 21 materials provided. So I'm just trying to make 22 sure I understand.</p>

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1 Did you rely on reviewing any other 2 IFUs in coming to your opinions in this case? 3 A. I -- I -- I -- 4 MS. STOKES: Objection. Form. 5 THE WITNESS: I relied on what I 6 relied on in my reliance list. I may have seen 7 and I may have searched as I just told you. 8 BY MR. JESSEE: 9 Q. Have you reviewed the labels for 10 other medical devices that have an -- a 11 resorption period listed? 12 MS. STOKES: Objection. Form. 13 THE WITNESS: I've looked at 14 specifically the -- the resorption studies that 15 I cite are cited in my report. And in 16 statements -- are you asking me if I looked at 17 any documents on complete healing periods and 18 resorption periods? 19 BY MR. JESSEE: 20 Q. No. 21 I'm asking whether you've looked in 22 -- at other IFUs besides the Ventralight --	1 Ventralight ST. 2 A. Sure. 3 THE WITNESS: Let me just -- let me 4 just give -- if you can give me Ventralight I 5 will trade you, please. 6 (Discussion held off the 7 stenographic record.) 8 (Deposition Exhibit 28 was marked 9 for identification.) 10 (Deposition Exhibit 29 was marked 11 for identification.) 12 BY MR. JESSEE: 13 Q. Doctor, I'm going to hand you the 14 IFUs that we've marked as Exhibit 28. 15 And if you have them before you, 16 that's fine too. I just wanted the make 17 sure -- 18 A. I have the 510(k). 19 Q. And Exhibit 29, which is the 510(k) 20 for the Ventralex. 21 And that's something you said you 22 had --
1 besides the Sepramesh that -- to talk about 2 resorption periods in them? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: I -- I don't recall 5 sitting here specifically. 6 BY MR. JESSEE: 7 Q. Okay. I want to talk something 8 about your opinions on the Ventralight. 9 A. Ventralight? 10 Q. Yep. 11 A. Sure. 12 Q. And so what I'm going to do now is 13 just -- can you -- 14 A. Can you just do me a favor? 15 Q. Yeah. 16 A. Can I just get Ventralight and -- 17 Q. Sure. Do you need a second or -- 18 A. No. I'm -- keep on going. 19 Q. What I'm -- what I was going to give 20 to you, too, just so you have it in front of 21 you, are the Ventralight IFUs and then the 22 510(k) that was submitted for the	1 Ventralex or Ventralight? 2 Q. Excuse me. I misspoke. 3 Ventralight ST. 4 A. I have portions of the 510(k). 5 MS. STOKES: And you said 510(k). 6 MR. JESSEE: No. That's the -- I'm 7 giving you the -- 8 MS. STOKES: Oh, I got you. 9 THE WITNESS: You're giving me the 10 510(k). 11 MS. STOKES: Okay. So IFU is 28. 12 MR. JESSEE: Yes. And -- let's see. 13 THE WITNESS: Okay. 14 BY MR. JESSEE: 15 Q. And your discussion in your expert 16 report of the -- your opinions regarding the 17 Ventralight ST, it starts on page -- we're on 18 Page 61, I believe. Maybe we can just turn 19 there to orient ourselves. 20 A. Sure. 21 MS. STOKES: What page are you on? 22 MR. JESSEE: 61.
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<p>1 BY MR. JESSEE:</p> <p>2 Q. And this is Section 8 of your</p> <p>3 report?</p> <p>4 A. This is page -- sorry?</p> <p>5 Q. 61.</p> <p>6 A. Right. Correct. That's the</p> <p>7 beginning.</p> <p>8 Q. And your opinion in this -- I</p> <p>9 believe what you said earlier is there -- what</p> <p>10 your focus was on on Ventralight ST was that</p> <p>11 the Bard statement regarding reabsorption of</p> <p>12 the hydrogel barrier in the Ventralight ST's</p> <p>13 IFU is misleading because it could give the</p> <p>14 surgeons the impression --</p> <p>15 A. What paragraph are you reading?</p> <p>16 Q. The header --</p> <p>17 A. You're at -- thank you.</p> <p>18 Q. -- right at the top of the page.</p> <p>19 A. Thanks.</p> <p>20 Q. Because it could give the surgeons</p> <p>21 the impression that Ventralight ST's resorbable</p> <p>22 barrier lasts for 30 days?</p>	<p>1 devices 510(k) -- excuse me. I'll withdraw -- try</p> <p>2 that again.</p> <p>3 The 510(k) also includes the</p> <p>4 predicate device Sepramesh IP's IFU as well.</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: I'm sorry.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. Sure.</p> <p>9 You want me -- I can give you a</p> <p>10 Bates number if that would help you find...</p> <p>11 A. Sure. We -- we did discuss the</p> <p>12 definition that usually there are predicates</p> <p>13 upon predicates.</p> <p>14 Q. Okay. And -- well, let's look at</p> <p>15 the actual 510(k) submission --</p> <p>16 A. Sure.</p> <p>17 Q. -- here and see what's listed as the</p> <p>18 predicate device.</p> <p>19 Can you agree that it's a</p> <p>20 requirement that a manufacturer, when it</p> <p>21 submits a 510(k) must list what the predicate</p> <p>22 device is, right?</p>
<p>1 A. Correct.</p> <p>2 Q. And you note on here that -- the</p> <p>3 510(k), that was cleared by the FDA in July</p> <p>4 15th, 2010, correct?</p> <p>5 A. Just give me the paragraph number.</p> <p>6 Q. Sure. It was on -- Paragraph 170.</p> <p>7 A. Thank you, sir.</p> <p>8 Q. And we have handed you as an exhibit</p> <p>9 also the 510(k).</p> <p>10 And this is something obviously</p> <p>11 you've reviewed, correct?</p> <p>12 A. I have looked at the 510(k), yes.</p> <p>13 Q. And the -- there are instructions</p> <p>14 for use submitted with the 510(k), correct?</p> <p>15 A. Sure.</p> <p>16 Q. And that's something that's</p> <p>17 typically submitted with 510(k)s?</p> <p>18 A. Sure.</p> <p>19 Q. And always in the case of surgical</p> <p>20 mesh, correct?</p> <p>21 A. Sure.</p> <p>22 Q. And there also had the predicate</p>	<p>1 A. Correct.</p> <p>2 Q. And the -- here are listed several</p> <p>3 of the Sepramesh IP 510(k)s as a predicate</p> <p>4 device.</p> <p>5 A. Can you just give me the page.</p> <p>6 MS. STOKES: Objection.</p> <p>7 THE WITNESS: There's multiple</p> <p>8 places where this is.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. Okay. And --</p> <p>11 A. Just give me the -- there's a page</p> <p>12 on substantial equivalence and what the</p> <p>13 predicate is. I just don't have that. We can</p> <p>14 just get to it.</p> <p>15 Q. Sure.</p> <p>16 So if you look at -- in -- it's Page</p> <p>17 27 in -- of the 510(k). If you look at the</p> <p>18 Bates number, it ends in 417.</p> <p>19 A. I'm there sir.</p> <p>20 Q. And this is the 510(k) summary.</p> <p>21 That's one of the areas where a</p> <p>22 manufacturers list the predicate device,</p>

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<p>1 correct?</p> <p>2 A. The immediate predicate. Correct.</p> <p>3 Q. Okay. And here we have listed as</p> <p>4 the predicate device Sepramesh IP bioresorbable</p> <p>5 coating/permanent mesh. And then there's three</p> <p>6 different 510(k) numbers listed there, correct?</p> <p>7 A. Correct.</p> <p>8 Q. And the FDA, in the -- any of the</p> <p>9 correspondence you've seen, have they suggested</p> <p>10 that Bard's representation of those three</p> <p>11 device -- those three 510(k)s as a predicate</p> <p>12 was inaccurate?</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: I'm not sure I</p> <p>15 understand the question.</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. Have you seen any communication from</p> <p>18 the FDA stating -- telling Bard that they need</p> <p>19 to be listing other devices as their predicate?</p> <p>20 A. I'm sorry. That's just not the way</p> <p>21 it works. I -- I'm not sure --</p> <p>22 Q. I know. That's my question though.</p>	<p>1 statute.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Okay. What -- what version -- what</p> <p>4 section of the statute --</p> <p>5 A. This --</p> <p>6 Q. -- says predicate chain?</p> <p>7 A. Well, the -- the statute says you</p> <p>8 have to be substantially equivalent to a device</p> <p>9 that was on the market prior to 1976.</p> <p>10 Q. Okay. And what -- what statutory</p> <p>11 provision are you referring to?</p> <p>12 A. I -- you have to look at the</p> <p>13 substantial equivalent. But it's always to a</p> <p>14 device that was preamendment. So you're --</p> <p>15 you're the same as something that was on the</p> <p>16 market pre-'76. So there's always a predicate</p> <p>17 chain.</p> <p>18 It's a -- it's -- it's -- it's FDA</p> <p>19 101 that -- I mean you're -- you're just not</p> <p>20 substantially -- you have to -- when the acts</p> <p>21 -- when the act got passed you have -- in '76,</p> <p>22 and as the 1990 Act reflected, was as long as</p>
<p>1 I'm just asking if you've seen those</p> <p>2 communications.</p> <p>3 A. No. But --</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 Assumes facts.</p> <p>6 THE WITNESS: Those certainly are</p> <p>7 not predicate pre1997 devices, sir. But --</p> <p>8 this is the immediate predicate that is listed</p> <p>9 here. You have to be substantially equivalent</p> <p>10 to a pre1976 device under the act.</p> <p>11 So of course there's predicates to</p> <p>12 the predicate to the predicate, right? So all</p> <p>13 this is asking is what the -- you know, what</p> <p>14 the immediate predicate is. This is not</p> <p>15 listing all the predicates. Because these</p> <p>16 predicates are based on other predicates.</p> <p>17 BY MR. JESSEE:</p> <p>18 Q. And can you point me to a specific</p> <p>19 FDA regulation that talks about the predicate</p> <p>20 chain that you've been referring to?</p> <p>21 MS. STOKES: Objection. Form.</p> <p>22 THE WITNESS: Just go to the</p>	<p>1 you're the same as and don't raise new</p> <p>2 questions compared to something that was on the</p> <p>3 market was grandfathered, you could get on the</p> <p>4 market.</p> <p>5 But the -- but the whole history of</p> <p>6 this is I'm the same as something that's I'm</p> <p>7 the same as that I'm the same as. That's</p> <p>8 what's gone on with substantial equivalence.</p> <p>9 Q. Can you point me -- and my</p> <p>10 question -- and I'm trying to be -- it's</p> <p>11 getting -- I know -- late in the day.</p> <p>12 I'm just -- I'm trying to just get</p> <p>13 very simple -- can you point me to a regulation</p> <p>14 that says -- FDA regulation that uses the term</p> <p>15 "predicate chain"?</p> <p>16 A. I don't know if it's in a</p> <p>17 regulation. But it's in -- I mean I've written</p> <p>18 probably articles that talk about substantial</p> <p>19 equivalence.</p> <p>20 And the -- go to any basic medical</p> <p>21 device law introduction to 510(k), and</p> <p>22 substantial equivalence is based on predicates</p>

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1 that have to go -- you have to go back to 2 pre-'76. And you have to show you're the 3 same -- you don't raise any new safety 4 questions to that original device. 5 That's the whole premise. That's 6 the whole congressional premise. 7 Q. Did you -- you can agree -- we can 8 agree that the Ventralight Sepramesh labeling 9 was included in this 510(k)? 10 A. The IFU? 11 Q. The IFUs, yes. 12 A. Sure. The -- 13 Q. And the -- and specifically the 14 language that you take issue with was included 15 in these 510(k)s that were submitted to -- to 16 the FDA, right? 17 MS. STOKES: Objection. Form. 18 THE WITNESS: So -- so tell me what 19 the language is that I -- so -- so we can -- 20 BY MR. JESSEE: 21 Q. Sure. 22 Looking on Page 54 of the 510(k).	1 Q. Okay. And where is that in the IFU? 2 A. That's -- that's in the -- that's in 3 promotional materials, I believe. 4 Q. Right. That's a separate -- I'm 5 talking about the IFU opinions though, the -- 6 this is the sentence that you take issue with, 7 correct? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: I take issue with a 10 number of the claims. 11 BY MR. JESSEE: 12 Q. Okay. And you didn't -- what -- you 13 didn't, in your report, address any other 14 issue, any other criticisms, or any other part 15 of the -- the -- the IFU except for this one 16 sentence. 17 A. I -- I would have to go back 18 exactly. But I certainly -- any sentence that 19 this lasts for the complete healing period, 20 that's what I would take issue with. 21 Q. Okay. What's the -- in your mind, 22 the complete healing period?
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1 A. Okay. And keep on going. Show me 2 where, please. 3 Q. The -- "Shortly after placement of 4 the biopolymer coating in this limited 5 description." 6 A. Just show me where -- where we are 7 after -- i description? 8 Q. Yeah. The very bottom last 9 sentence. 10 A. Right. The bottom last sentence. 11 Q. And that's -- that -- you can 12 correct me if I'm wrong, but I believe that's 13 the statement that you take issue with; is that 14 accurate? 15 A. Well, it -- it -- 16 MS. STOKES: Objection. Form. 17 THE WITNESS: It is -- that is 18 the -- the statement, in part. But I also take 19 issue with the fact that the claim as discussed 20 here talks about that -- that it lasts for the 21 complete healing period. 22 BY MR. JESSEE:	1 A. I mean as -- you know, the -- if you 2 look at -- in Bard's own -- let me just give 3 you a Bates number, if I have it. I may not 4 have it. May -- I don't have a Bates number. 5 I have a native document. 6 If you look at a Bard's document, as 7 of July 16, 2015, from Debbie Tripodi to Justin 8 Piza, and they -- and the subject is "Critical 9 Healing Period." 10 According to Bard it says that the 11 typical critical healing period is four weeks. 12 And it gives two cites, one to a textbook and 13 one to FDA meeting minutes. 14 And the FDA, in meeting minutes with 15 Bard on -- in a document that I'm happy to give 16 you, that is actually cited here and is part of 17 this attachment, says JN, who is one of the FDA 18 officials stated eight weeks is too long; four 19 to five weeks is preferable as the critical 20 healing period. 21 So one -- so Bard's conclusion is 22 the critical healing period is four weeks.

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<p>1 Q. Okay. And when you say Bard's 2 conclusion though, you're talking about a 3 specific person who's a specific employee?</p> <p>4 MS. STOKES: Objection. Form.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. And -- and can you read me the -- 7 since I don't have these in front of me, what 8 you're referring to?</p> <p>9 A. This -- this -- your database only 10 prints out the native. I couldn't -- I tried 11 to print out a --</p> <p>12 Q. Okay. Well, it's not our -- it's 13 not my database.</p> <p>14 A. No, no, no. Your -- you -- the way 15 you -- sorry.</p> <p>16 Q. Well, I mean I'm able to --</p> <p>17 A. Your -- your -- your client produced 18 this --</p> <p>19 Q. Okay. We --</p> <p>20 A. -- in the native. You can just take 21 a picture of this. This is -- this is -- this 22 is the native document.</p>	<p>1 evidence out there that shows that the barrier 2 lasts for 30 days, that statement's not 3 misleading.</p> <p>4 We can agree on that, right?</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: Are you living in an 7 alternate reality world?</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. I'm -- can you answer the -- the 10 question?</p> <p>11 If there is evidence -- how can --</p> <p>12 is that statement misleading?</p> <p>13 Because that's -- your criticism is</p> <p>14 there's not evidence to -- that it support for 15 30 days.</p> <p>16 If there is evidence --</p> <p>17 A. I'm --</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: What I'm saying is, if 20 it gives the impression that it let -- that 21 it's okay to use this in the intraperitoneal 22 space because this layer is around long enough</p>
<p>1 Q. Can you just give me the date of it?</p> <p>2 A. Sure. On July 16, 2015.</p> <p>3 Q. Okay. And who is the document from?</p> <p>4 A. Debbie, T-R-I-P-O-D-I.</p> <p>5 Q. Okay. And do you know what position 6 she has at -- at Bard?</p> <p>7 A. She's a senior product manager.</p> <p>8 Q. The -- is it -- would it be accurate 9 that, if there is scientific evidence that the 10 barrier -- the hydrated gel is resorbed in 30 11 days, then the -- that statement is not 12 misleading.</p> <p>13 MS. STOKES: Objection. Form.</p> <p>14 THE WITNESS: I looked at the 15 studies, I mean one by one, and looked myself 16 at -- at the studies. And I certainly didn't 17 see evidence that the ST layer stayed that -- 18 that 30 days.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. And respectfully though that wasn't 21 my question.</p> <p>22 My question was, if there is</p>	<p>1 and lasts longer than the healing period -- the 2 -- the healing is done, right, while the layer 3 is still there, it would be misleading. That's 4 my concern.</p> <p>5 I mean you can have scientists talk 6 about the resorption period. I can tell you 7 I've looked at -- other scientists can also 8 add. I've looked just what the studies show 9 and I don't see this layer -- the evidence of 10 this layer lasting 30 days.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. And you haven't done testing 13 yourself on it though.</p> <p>14 Can we agree on that?</p> <p>15 A. I -- I'm -- I -- that's correct.</p> <p>16 But I have looked at every single one of Bard 17 and Genzyme's studies and have cited them.</p> <p>18 Q. And how many of those study that you 19 cited to involved the Ventralight ST?</p> <p>20 THE WITNESS: So can I have my 21 Ventralight.</p> <p>22 BY MR. JESSEE:</p>

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<p>1 Q. And would you mind just -- what -- 2 what -- the one you have been looking at, 3 what's the exhibit number?</p> <p>4 MS. STOKES: 12, I think.</p> <p>5 THE WITNESS: 12, sir.</p> <p>6 MR. JESSEE: 12. Okay.</p> <p>7 THE WITNESS: So we can --</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. And -- and, Doctor, before we do 10 that, I still haven't gotten --</p> <p>11 A. You're -- you're -- you're asking a 12 lot of questions. Let's stay with one question 13 at a time.</p> <p>14 Q. I know. I still haven't got my one 15 question answered though --</p> <p>16 A. Okay.</p> <p>17 Q. -- is the problem though.</p> <p>18 If -- if the -- there is scientific 19 evidence showing that the coating, when it 20 becomes a hydrated gel, is absorbed in 30 days, 21 is this statement "shortly after placement, the 22 biopolymer coating becomes a hydrated gel that</p>	<p>1 A. Just -- okay. I got to -- the -- 2 just -- just hold on one second.</p> <p>3 If, in fact, this -- well, I mean as 4 -- as -- as Bard's employees say, by saying 5 that it lasts up to 30 days, right, and if it, 6 in fact, only lasts seven days, that may 7 compromise what the surgeons' opinions of how 8 effective the barrier is.</p> <p>9 So surgeons I mean want to make sure 10 that this barrier is there and is going to -- 11 if you're going to -- if you're going to the 12 use this in the intraperitoneal space, you got 13 to make sure that it's going to protect against 14 those -- those adhesions and those other 15 consequences of mesh attaching to bowel until 16 that healing period. That's what surgeons 17 want.</p> <p>18 Q. Have -- have you spoken with any 19 surgeons about the Ventralight ST?</p> <p>20 A. No. No. But I've read what Bard's 21 view of what the surgeons want.</p> <p>22 Q. Okay. But you haven't spoken to</p>
<p>1 is resorbed from the site in less than 30 2 days," is that misleading?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 THE WITNESS: If you -- if your 5 studies showed -- I mean let me make sure I 6 understand this. If your study showed that 7 this coating lasted throughout, then 8 obviously -- I mean until complete healing, 9 then that would not be misleading if there were 10 studies that showed you lasted throughout that 11 complete healing period.</p> <p>12 BY MR. JESSEE:</p> <p>13 Q. And it doesn't though here in this 14 -- I -- if you say "complete healing period."</p> <p>15 A. What I mean --</p> <p>16 Q. It says 30 days?</p> <p>17 A. Well, but that's the -- the -- 18 the -- the concern --</p> <p>19 Q. And would you agree --</p> <p>20 A. Just -- just one second.</p> <p>21 Q. Yeah. Sorry. I didn't mean to 22 interrupt you.</p>	<p>1 them about the resorbable barrier, any 2 surgeons?</p> <p>3 A. No. But -- but it -- but it -- it's 4 clear from Bard's own sales force that, if you 5 -- if the barrier only lasted seven days, that 6 that was too short, and you needed -- and 7 surgeons want to make sure that it can safely 8 put.</p> <p>9 But the whole question is how could 10 this possibly be substantially equivalent when 11 these questions are not answered? Why are we 12 putting this -- saying this is the same as 13 these other devices going all back the 14 predicate chain when there's all this 15 controversy on how long this lasts, and that's 16 not been determined?</p> <p>17 Q. Do you know how -- how long 18 Sepramesh has been on the market, Sepramesh IP 19 -- IP?</p> <p>20 MS. STOKES: Objection. Form.</p> <p>21 THE WITNESS: So I -- I'd have to 22 look that -- I have the -- the 510(k). I can</p>

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<p>1 look that date up.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Do you know how much --</p> <p>4 A. But -- but -- please. The issue is</p> <p>5 not Sepramesh. The issue is how long will</p> <p>6 Sepramesh, once it's attached to the</p> <p>7 polypropylene, right -- the issue is isn't</p> <p>8 the -- the Sepramesh and the Genzyme. It's</p> <p>9 whether it will protect the -- the</p> <p>10 polypropylene. And that's the key -- key</p> <p>11 question.</p> <p>12 Q. Well, and the -- no the key question</p> <p>13 is how is -- if -- if it's -- how it's</p> <p>14 impacting -- how it's working in -- in</p> <p>15 patients, isn't it?</p> <p>16 A. Right. And that's --</p> <p>17 MS. STOKES: Objection. Form.</p> <p>18 Argumentative.</p> <p>19 THE WITNESS: -- why you do human</p> <p>20 trials before you experiment and do -- on --</p> <p>21 using humans as guinea pigs.</p> <p>22 BY MR. JESSEE:</p>		<p>1 opinion that there is not, at this point in</p> <p>2 time, clinical evidence of this device?</p> <p>3 MS. STOKES: Objection. Form.</p> <p>4 Argumentative.</p> <p>5 THE WITNESS: You've not established</p> <p>6 the safety and effectiveness of the --</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. No. I'm asking you.</p> <p>9 Are you offering that opinion that's</p> <p>10 it's unsafe?</p> <p>11 A. My -- my --</p> <p>12 MS. STOKES: Are you going to let</p> <p>13 him finish?</p> <p>14 THE WITNESS: My opinion is that, if</p> <p>15 you look at what Bard submitted to the agency,</p> <p>16 you've not established safety and</p> <p>17 effectiveness. You've established that it was</p> <p>18 substantially equivalent to Sepramesh, which --</p> <p>19 which was going back to Composix mesh, which</p> <p>20 was the same as Gore-Tex. You've never</p> <p>21 established safety and effectiveness. And you</p> <p>22 should have done human clinical trials.</p>
	<p>1 Q. And right.</p> <p>2 And how -- what are the -- what are</p> <p>3 clinical studies on the Sepramesh and the</p> <p>4 Ventralight ST, the numerous clinical studies,</p> <p>5 what do they say about that?</p> <p>6 A. I --</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 Argumentative.</p> <p>9 THE WITNESS: And -- and I can tell</p> <p>10 you, okay, that you don't have those human</p> <p>11 studies that answer that question --</p> <p>12 MR. JESSEE: Okay. The --</p> <p>13 THE WITNESS: -- as part of the --</p> <p>14 as part of the 510(k).</p> <p>15 BY MR. JESSEE:</p> <p>16 Q. And I'm not talking about the 510(k)</p> <p>17 right now.</p> <p>18 A. But that's --</p> <p>19 Q. I'm talking about 2020 in -- for</p> <p>20 this device that's used at the University of</p> <p>21 California San Francisco on a regular basis,</p> <p>22 the -- as I say you're -- are you offering the</p>	<p>1 BY MR. JESSEE:</p> <p>2 Q. So in the -- in the -- my answer to</p> <p>3 my question, you can't say whether today the</p> <p>4 medical literature out there, the clinical</p> <p>5 studies that have been done, establishes</p> <p>6 whether it's safe or not, Ventralight?</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 Vague.</p> <p>9 THE WITNESS: You -- you -- your</p> <p>10 company did not establish that.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Not my question, Doctor.</p> <p>13 A. Your company did not establish</p> <p>14 safety and effectiveness of this device and</p> <p>15 never under -- never undertook that.</p> <p>16 Q. Doctor, that -- I think -- come on</p> <p>17 now. You understand what my question is here.</p> <p>18 A. So --</p> <p>19 Q. Are you offering an opinion one way</p> <p>20 or the other --</p> <p>21 A. I'm -- I'm --</p> <p>22 Q. -- on the clinical literature out</p>

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1 there on Ventralight and Sepramesh? 2 MS. STOKES: Objection. Form. 3 THE WITNESS: The -- the -- the 4 general view and the consensus statements of 5 the -- certainly the European Hernia Society 6 is -- is that, if you're going to use these 7 kind of meshes, you should use them -- if 8 you're going to -- if you're going to use mesh 9 in these ventral hernias, you do it 10 pari-peritoneal, and you're careful about not 11 putting these in intraabdominally. 12 There is not safety and 13 effectiveness that is accepted about 14 intraperitoneal use of Ventralight or any of 15 these composites. That safety and 16 effectiveness has not been established. That's 17 why the consensus studies that has those 18 opinions are moving toward preperitoneal use. 19 MR. JESSEE: Let -- let's -- let's 20 take a break. 21 THE VIDEOGRAPHER: We are going off 22 the record. This is the end of Media Unit No.	1 Q. Do you have an understanding of 2 whether it's just with Bard or with other 3 manufacturers? 4 A. I think it's with other 5 manufacturers. 6 Q. Do you know that the FDA has access 7 to that data? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: I'm not sure I'm aware 10 of that. I just don't -- don't recall. 11 BY MR. JESSEE: 12 Q. Okay. So you don't know one way or 13 the other whether the FDA has access to the AHS 14 QC data? 15 A. No. I didn't study that. 16 Q. The -- turning back to the 17 Ventralight ST. 18 Do you know how many times the FDA 19 has reviewed the statement about resorption 20 within 30 days? 21 MS. STOKES: Objection. Form. 22 Calls for speculation.
1 4. 2 The time is 6:01 -- I mean -- sorry. 3 Time is 3:27. 4 (A short recess was taken.) 5 THE VIDEOGRAPHER: We are going back 6 on the record. This is the start of Media Unit 7 No. 5. 8 The time is 3:43. 9 BY MR. JESSEE: 10 Q. Doctor, do you know what the 11 America's Hernia Society quality collaborative 12 is? 13 A. I did I read -- there were some 14 statements about certain -- in the record about 15 that. 16 Q. And what's your understanding of 17 what that is? 18 A. It was a group that -- I'd have 19 to -- I'd have to review to be exactly certain. 20 But it was -- the context was getting certain 21 data with Bard, as I -- as I understood it, at 22 a certain point in time.	1 THE WITNESS: How many times the 2 510(k) has been looked at. I can tell you -- I 3 mean I -- I -- I think there's two Ventralight 4 510(k)s, if I -- but I -- I don't know 5 specifically. I don't have a record of -- of 6 how many times FDA has looked at that -- 7 BY MR. JESSEE: 8 Q. Do you know -- 9 A. -- specific -- 10 Q. -- how many time -- how many 11 Ventralight 510(k)s there are? 12 A. So -- just give me one second. 13 Q. And can you tell me what you're -- 14 I'm not -- can you tell me what you're looking 15 at right now, please. 16 A. I'm looking at -- I'm looking at my 17 own index of all the 510(k)s that I have 18 pulled. 19 Q. Okay. Is this -- so is this 20 separate from the documents that you -- hard 21 copy documents you brought with you today? 22 A. Yes.

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<p style="text-align: right;">Page 462</p> <p>1 Q. All right. And can we get a copy of 2 that index?</p> <p>3 A. Well, so here it is. Here -- 4 they're just PDFs into a folder of --</p> <p>5 Q. And --</p> <p>6 A. -- 5 -- 510(k)s.</p> <p>7 Can you -- let me just answer one 8 question --</p> <p>9 Q. Sure.</p> <p>10 A. -- at a time, if I can. 11 Just give me one second.</p> <p>12 Q. And, Doctor, I just -- respectfully, 13 we can go off the record if you want to spend 14 time looking through this, but --</p> <p>15 A. But I -- I have -- I -- I have put 16 various 510(k)s in here under Ventralight. 17 Hold on a second. And I'm happy to -- you 18 know, whenever you -- just give me one second. 19 I -- I don't want to take your 20 time. But I do have -- and I -- for some 21 reason I thought there were at least two K 22 numbers. But I -- I'd have to pull them up.</p>	<p style="text-align: right;">Page 464</p> <p>1 A. No. It's actually the 510(k)s 2 themselves here.</p> <p>3 So I have -- but my computer for 4 some reason is going kablooey. Here it is.</p> <p>5 So I have Sepramesh. I have the 6 K053066. I have that. That's Sepramesh that 7 I've looked at at one point in time. That's 8 the -- and I have an -- a Sepramesh K40868 9 also.</p> <p>10 Q. Have you reviewed the FDA review 11 memorandum for any of the Ventralight or 12 Sepramesh?</p> <p>13 A. Yeah. So I have the FOI documents 14 for Sepramesh.</p> <p>15 Q. Do you know whether Bard has ever 16 discussed the resorption rate or testing on 17 resorption with FDA?</p> <p>18 A. I -- I --</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: I'd want to review 21 that. I don't have a --</p> <p>22 BY MR. JESSEE:</p>
<p style="text-align: right;">Page 463</p> <p>1 Q. Okay. Have you reviewed every 2 510(k) for Ventralight?</p> <p>3 A. I have tried to view -- I can -- I 4 will tell you exactly what I reviewed when -- I 5 just missed it for some reason. Here it is. 6 I'm sorry. Here.</p> <p>7 So what I have is -- here it is. I 8 think this is -- so I have reviewed two 9 Ventralight 510(k)s. One -- actually, they're 10 both the same K number. So I have reviewed -- 11 sorry -- K101851.</p> <p>12 Q. Okay. And have you reviewed the 13 Sepramesh 510(k)s?</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 THE WITNESS: So I have viewed -- 16 sorry. This is -- I have viewed --</p> <p>17 MS. STOKES: You're touching your 18 mouse.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. And is what you're looking at a -- 21 it's your list of the 510(k)s you've actually 22 reviewed and --</p>	<p style="text-align: right;">Page 465</p> <p>1 Q. You don't have it as we sit here 2 right now with you?</p> <p>3 A. I don't have that in -- it certainly 4 has -- I don't -- I don't know that 5 specifically.</p> <p>6 Q. Okay. And that's fine.</p> <p>7 Let's -- with the -- you'd agree 8 that there was -- in the 510(k) for the 9 Ventralight, Bard talked about an animal 10 testing that it had done, right?</p> <p>11 MS. STOKES: Objection. Form.</p> <p>12 THE WITNESS: So -- hang on a 13 second.</p> <p>14 So I have -- I mean it talked 15 about -- in the 510(k) on Ventralight, it 16 talked about the biocompatibility testing. I 17 certainly have all the -- the biocompatibility 18 testing.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. And did you review -- and the -- 21 there's also preclinical testing discussed in 22 the -- in vivo preclinical testing four-week</p>

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<p>1 implant in a pig discussed in the 510(k), 2 correct? 3 A. So I have -- I have the subchronic 4 13-week in rats -- 5 Q. Okay. 6 A. Here. 7 Q. Do you know what -- 8 A. Hold on a second. Let me just get 9 -- so I am aware of -- there are several -- I 10 think there are -- one, two -- one two, three, 11 four, five -- five -- well, some are Ventra -- 12 Ventralight. I'm sorry. 13 There's a Ventralight pig study -- a 14 porcine study with ten pigs that I'm aware of. 15 Q. And what's the exhibit number you're 16 looking at, the sticker for this page? 17 A. 15. 18 MR. JESSEE: Okay. Let's quickly 19 mark exhibit -- 20 BY MR. JESSEE: 21 Q. What -- while we're looking for 22 that, the -- what's the -- in your opinion, the</p>	<p>1 words. 2 But I mean there's -- I mean the -- 3 the real issue is -- I mean the things -- the 4 downstream consequences of obstruction and 5 can -- and the mesh ends up in the bowel. 6 Q. Do you know what the reported rate 7 in literature of the Ventralight of any kind of 8 mesh getting into the bowel -- any of the 9 issues you just described are? 10 A. I'm not -- 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I -- I -- I have 13 not -- we talked about reporting rates. 14 BY MR. JESSEE: 15 Q. In literature, I'm talking about. 16 A. I have not -- I do not have those 17 data. 18 Q. Okay. 19 A. You can ask the surgeons that. 20 Q. Okay. I'm going to go ahead and 21 just show you -- ask you have a few questions 22 about two documents. Here you go.</p>
<p>1 clinical significance if the resorbable gel 2 does not last for the 30 days? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: The -- the issue is 5 you can't -- you can't put mesh -- you're not 6 going to put polypropylene mesh into the bowel 7 unless you can protect the consequences of that 8 mesh. 9 BY MR. JESSEE: 10 Q. Right. 11 And so my question is what is the 12 clinical consequences? 13 A. Right. 14 MS. STOKES: Objection. 15 THE WITNESS: So the -- the -- you 16 can end up with mesh in the bowel, right? 17 BY MR. JESSEE: 18 Q. Do you know what the rate -- and 19 that's commonly known as adhesion? 20 A. Well, be -- be a little careful. 21 There's adheres. There's intrusion. There's 22 obstruction. There's a number of different</p>	<p>1 And this is just one of the studies 2 that I think you cite to in your schedule, and 3 it's one you've seen before, right? 4 A. Yeah. I have to just get oriented 5 and see which study you're referring to. 6 (Deposition Exhibit 30 was marked 7 for identification.) 8 BY MR. JESSEE: 9 Q. And this was actually submitted with 10 the Ventralex ST 510(k), as you can see? 11 A. Yeah. I'm not questioning -- I 12 don't question that. 13 So this is Davol -- what's the 14 report number -- ending in 35 -- 357. Hold on 15 a second. So this is not -- some of these have 16 multiple different numbers an DB numbers. Hold 17 on one second. 18 MR. JESSEE: All right. Let's go 19 off the record, please. 20 THE VIDEOGRAPHER: We are going off 21 the record. 22 THE WITNESS: What -- what -- what's</p>

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<p>1 your question?</p> <p>2 MR. JESSEE: That's fine. Why don't</p> <p>3 you take a minute and look at --</p> <p>4 THE VIDEOGRAPHER: We are going off</p> <p>5 the record.</p> <p>6 The time is 3:53.</p> <p>7 (A short recess was taken.)</p> <p>8 THE VIDEOGRAPHER: We are going back</p> <p>9 on the record.</p> <p>10 The time is 3:54.</p> <p>11 BY MR. JESSEE:</p> <p>12 Q. Doctor, in the first page of the</p> <p>13 document I handed you, you can see at the</p> <p>14 bottom that this is part of the 510(k)</p> <p>15 submission for the Ventralight -- or Ventralex</p> <p>16 ST. Excuse me.</p> <p>17 A. That's what it says, yes.</p> <p>18 Q. Did you review the 510(k)s for other</p> <p>19 devices -- for the Ventralex ST?</p> <p>20 A. So this -- I'm sorry. I have the</p> <p>21 Ventralex, as I just said. I have the 510(k).</p> <p>22 Q. Okay. For the ST as well?</p>	<p>1 Q. So, Doctor, if you could turn to</p> <p>2 Page 850 of this or the -- the Bates --</p> <p>3 A. And this is -- this is not on</p> <p>4 Ventralex or on Ventralight, correct?</p> <p>5 This is Ventrio.</p> <p>6 Q. This is -- and if you look at the --</p> <p>7 the device that's actually at issue here, it's</p> <p>8 Sepramesh IP and Ventrio.</p> <p>9 A. It's Ventri -- so it's not -- we're</p> <p>10 not talking about Ventralex or Ventralight.</p> <p>11 Q. Yeah. We're talking about Sepramesh</p> <p>12 IP.</p> <p>13 A. This is --</p> <p>14 Q. The one that you said is</p> <p>15 substantially equivalent to Ventralex?</p> <p>16 MS. STOKES: I think we're very</p> <p>17 confused here. So this is a submission for</p> <p>18 Ventralex ST?</p> <p>19 MR. JESSEE: Yeah. It -- that's</p> <p>20 what I was pointing out right at the bottom.</p> <p>21 THE WITNESS: Right. But it's --</p> <p>22 but it's -- but the -- but the device that's</p>
<p>1 And you understand --</p> <p>2 A. Yeah.</p> <p>3 Q. -- there's a difference between the</p> <p>4 Ventralex and Ventralex ST?</p> <p>5 A. I'm sorry. You -- you -- you just</p> <p>6 now switched on me from Ventralight -- I</p> <p>7 apologize.</p> <p>8 Q. Yeah.</p> <p>9 A. You went -- you went from</p> <p>10 Ventralight. You're now -- you're now going to</p> <p>11 Ventralex. I'm sorry. I thought we were still</p> <p>12 dealing -- that's why I couldn't find this</p> <p>13 under my Ventralight.</p> <p>14 This is -- you're -- this is from</p> <p>15 Ventralex --</p> <p>16 Q. Yeah.</p> <p>17 A. -- 510(k). Okay.</p> <p>18 Q. Ventralex ST.</p> <p>19 THE WITNESS: Keep on going.</p> <p>20 Just -- just bring me my 510 -- my</p> <p>21 510 -- my Ventralex studies.</p> <p>22 BY MR. JESSEE:</p>	<p>1 being tested is not Sepramesh, as you just told</p> <p>2 me.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. The -- all right. We'll -- we'll</p> <p>5 get there.</p> <p>6 A. The device on Page -- I mean --</p> <p>7 Q. If you look at --</p> <p>8 A. -- 834 says this is Ventrio ST.</p> <p>9 Q. That's what the report says.</p> <p>10 If you go to 838.</p> <p>11 MS. STOKES: I'm sorry. What page</p> <p>12 now?</p> <p>13 MR. JESSEE: It's 838, Bates No.</p> <p>14 988.</p> <p>15 THE WITNESS: I -- I see that.</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. Okay. And you see the different</p> <p>18 test controls, one being S -- Sepramesh IP?</p> <p>19 A. I -- I -- I see that.</p> <p>20 Q. Okay. If you could turn to Page</p> <p>21 850, Doctor.</p> <p>22 A. Correct.</p>

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<p>1 Q. This is "Histopathology Summary." 2 Do you see that? 3 Are you on that page? 4 A. Let me just see. So this is 5 Sepramesh. Correct. 6 Q. And if you look about halfway down, 7 there's a sentence that starts "However." 8 You see where I've started there, 9 "However a reduction in distance"? 10 A. Right. 11 Q. It says: "However a reduction in 12 distance between the polypropylene fibers and 13 the visceral surface of each device is 14 consistent with absorption of the hydrogel 15 barrier by 28 days." 16 Did I read that correctly? 17 A. That's what this says. 18 Q. If you could turn to Page 890. 19 And this is a report by DaVinci 20 Biomedical, right? Correct? 21 A. That's what this said -- that's what 22 the heading is.</p>	<p>1 published studies by people outside of Bard 2 looking at the absorption period for 3 Ventralight and Sepramesh? 4 A. I cite this -- I cite -- yes. There 5 were Genzyme studies. 6 Q. And I -- I should clarify. Outside 7 of Bard or -- or Genzyme. I'm talking about in 8 published -- published scientific literature? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: No. I'm -- I -- I'm 11 not sitting here -- I mean I'm -- I'm aware of 12 what was in the record by the -- 13 BY MR. JESSEE: 14 Q. Okay. The -- on Page 75 of your 15 report -- we're switching tracks now to the 16 large Ventralex and your opinions on that. 17 A. Okay. 18 Q. Page 57 of your report, you talk 19 about that -- Paragraph 208. 20 A. Yes, sir. 21 Q. And it's your been -- been your 22 practice, both at FDA and afterwards, to rely</p>
<p>1 Q. And if you would read at the very -- 2 the last sentence of this conclusion, it 3 starts -- the what sentence, it breaks into the 4 next page. 5 It says: "Furthermore a 6 reduction" -- 7 A. Wait. Wait a second. Just -- 8 Q. Sure. 9 A. You're very good. But you just need 10 to point better where -- 11 Q. Yeah. Last sentence of the page 12 where it goes into the next page -- 13 A. Right. 14 Q. -- is what I was trying to get at. 15 "Furthermore, a reduction in 16 distance between the polypropylene fibers and 17 visceral surface of Ventrio ST hernia patch and 18 Sepramesh IP composite by 28 days is consistent 19 with absorption of the hydrogel barrier." 20 Did I read that correctly? 21 A. You did. 22 Q. The are you aware of any preclinical</p>	<p>1 on engineers to evaluate the adequacy of 2 mechanical as opposed to clinical design 3 characteristics of devices and to evaluate the 4 proper design control processes for assuring 5 proper performance of these devices. 6 A. Correct. 7 Q. And with regard to this issue of 8 ring buckling. 9 And that's a mechanical, not 10 clinical issue, right? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: Not -- not entirely. 13 That -- that would be incorrect. As you -- 14 your medical director, Dr. Ciavarella, has 15 testified, that obviously is a clinical -- 16 that -- that has -- there's mechanical 17 components of that. But ultimately, I mean 18 he's the one who said that -- I think I cite 19 him -- recommended that additional testing -- 20 long-term testing be done. 21 So it's -- it's the medical 22 director. And I think the -- the key aspect of</p>

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1 some of the -- so it's not just mechanical, is 2 the answer to your question. 3 BY MR. JESSEE: 4 Q. Okay. But you rely on a -- an 5 engineer for several opinions in this section, 6 do you not? 7 MS. STOKES: Objection. Form. 8 THE WITNESS: I -- I think that I -- 9 I think, if -- if you add the word "in part," 10 okay, I do cite that. But I mean there's also 11 the clinical aspects. Ciavarella's not a 12 mechanical engineer. He's -- he's a -- a 13 medical director. And he -- it's -- it's -- I 14 mean, as he would -- I don't need a mechanical 15 engineer to basically agree with Ciavarella. 16 BY MR. JESSEE: 17 Q. As a -- as we sit here without 18 looking into the documents, do you recall 19 whether any surgeons at the FDA provided input 20 on the labeling for the Ventralex device? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: I'd have to pull the	1 deposition. So I -- I just -- I'd have to 2 refresh my memory. I -- I don't know if I did. 3 Q. Do you keep notes of any 4 conversations you would have had with other 5 people? 6 A. I don't recall any. I mean I 7 brought everything -- I -- I don't have any 8 notes with me. And I would have had notes 9 if -- if I had kept -- I just don't recall. 10 I'd have to refresh my memory. 11 Q. Would -- is there any other expert 12 that you talked to in relation to this case? 13 A. No. 14 Q. So it's possible you don't know 15 from -- 16 A. I just don't remember -- I -- I'm 17 just sitting here -- 18 Q. That's fine. 19 A. -- right -- I'm -- 20 Q. I -- that's fine. 21 A. I just -- 22 Q. You --
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1 Ventralex 510(k) correspondence on that to -- 2 BY MR. JESSEE: 3 Q. The -- 4 A. -- answer that question. 5 Q. It says here you requested counsel 6 to engage quality system engineer John Quick? 7 A. I did. Well, I -- I -- I -- I asked 8 them to have somebody look at the QSM aspects 9 at Bard at -- at Bard as it relates to this 10 device. 11 Q. Okay. And there's not -- so there 12 wasn't -- you didn't specifically ask for Mr. 13 Quick then? 14 A. I don't believe at any point that 15 I -- I used -- I didn't know Mr. Quick before. 16 I think it would -- I -- I think my request was 17 to have a quality system expert. 18 Q. Did you talk with him at all on the 19 phone? 20 A. I'm blocking. I apologize. I just 21 -- it's getting late. I -- and so it's -- it's 22 not that late, but I -- it's late in the	1 A. There's no -- I just -- I'd have to 2 just refresh. 3 Q. And you expected Mr. Quick to be 4 qualified in quality systems to assess the 5 quality systems, right? 6 MS. STOKES: Objection. Form. 7 THE WITNESS: Yeah. He -- he had 8 run Baxter quality systems for decades, et 9 cetera. 10 BY MR. JESSEE: 11 Q. And you were relying on his opinions 12 here that you cite these bullet point to be 13 accurate, correct? 14 MS. STOKES: Objection. Form. 15 THE WITNESS: Well, I -- I -- I 16 certainly -- I -- I cite these. But he cites 17 Ciavarella. I don't -- I mean there's certain 18 things that I don't need Quick. I mean I do 19 that for comp -- for the comp -- to be 20 comprehensive. I don't need Quick to cite 21 Ciavarella. I can cite Ciavarella. I can talk 22 about the clinical aspects. So there's a

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1 little bit of redundancy there.	1 A. I mean I -- I think -- I mean -- no.
2 Q. Do you know what the -- in the 3 clinical literature, what the -- have you seen, 4 in clinical literature on the Ventralex, 5 reports of buckling?	2 I'd want -- I'd want to check it -- there's a 3 list of all the complaints and which ones -- 4 but I think some of them overlap with the -- on 5 the -- if -- if I remember certain of the 6 complaint records, they were issues with 7 Ventralex large as well as Composix Kugel. But 8 I need time to pull up those spreadsheets.
6 MS. STOKES: Objection. Form.	9 Q. Can you tell me what the difference
7 THE WITNESS: I certainly have seen 8 in the Composix Kugel, et cetera, that history 9 of buckling being associated with the well. 10 But I -- I can't place it exactly sitting here 11 where I've seen -- referred to as different 12 terms by different -- buckling of kinking.	10 between the ring and the Composix Kugel large 11 and the Ventralex large is?
13 I'd have to go back and re -- remind 14 myself exactly whether I saw it specifically on 15 Ventralex large or whether I saw it on Composix 16 Kugel.	12 A. So there was a shift --
17 BY MR. JESSEE:	13 MS. STOKES: Objection. Form.
18 Q. Would it be fair that, to the extent 19 you did see the instances, whether in 20 complaints or in the materials you reviewed, of 21 buckling in Ventralex large, it would be -- you 22 would -- be addressed in your report?	14 THE WITNESS: So there was a 15 shift -- at what point in time?
Page 483	Page 485
1 A. I think --	1 Is that what you're referring to?
2 MS. STOKES: Objection. Form.	2 BY MR. JESSEE:
3 THE WITNESS: I do cite complaints 4 here on Ventralex large, I believe on buckling, 5 et cetera. And --	3 Q. I'm just asking you about your 4 knowledge.
6 BY MR. JESSEE:	5 A. Yeah. So there was a shift in 6 redesign in -- as far as diameter of the mesh 7 from point -- 0.042 to .030.
7 Q. And what page are you looking at?	8 THE WITNESS: Can I just have my 9 Ventralex sheets.
8 A. I believe there's -- let's just get 9 this. There are complaints, if my -- my memory 10 serves me right. Unless my memory is off.	10 BY MR. JESSEE:
11 So I'd -- I'd have to go back --	11 Q. Do you -- have you reviewed Bard's 12 interactions with the FDA related to the 13 Composix Kugel recall?
12 I -- I see specifically where -- I -- I have a 13 recollection of certain spreadsheets on 14 complaints. Bard received complaints of ring 15 buckling with the Composix Kugel and the 16 reduced diameter ring.	14 A. There's certainly -- yes. I mean 15 there's -- there's numerous ones. I've looked 16 at the 483s. I've looked at the warning 17 letters. I have studied that.
17 I certainly -- I think some of those 18 on that spreadsheet also had the word 19 Ventralex. But I'd have to pull those 20 spreadsheets.	18 Q. Okay. And with respect to the 19 483s -- and that -- that's something that's 20 fairly common in medical devices -- in medical 21 -- for the medical device manufacturers that, 22 after an FDA inspection, they'll issue 483s?
21 Q. Okay. So you don't know for sure as 22 we sit here right now?	

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1 MS. STOKES: Objection. Form. 2 THE WITNESS: Yeah. I'm not going 3 to -- yes. I'm not going to -- 483 is not 4 going to -- 483s happen. And they -- there -- 5 there's no question. And -- in and of 6 themselves. 7 Depends what it the 483 is about. I 8 mean is it a 483 about a recall about devices 9 failing? What's the hazard of the device? 438 10 alone is not going to -- you know, I'm not 11 going to criticize somebody for getting a 438. 12 BY MR. JESSEE: 13 Q. Okay. Because like Immucor has 14 gotten 438s, correct? 15 A. Exactly. 16 Q. And even in the last couple years, 17 correct? 18 MS. STOKES: Objection. Form. 19 THE WITNESS: I'm sure we've gotten 20 438s. 21 BY MR. JESSEE: 22 Q. And again, that's not a -- the 438s	1 -- is saying. And I mean it's part of the risk 2 management and the quality assurance. 3 BY MR. JESSEE: 4 Q. So you're of the opinion the 483 is 5 related to the -- the -- this testing, you're 6 saying? 7 A. If you don't define -- 8 MS. STOKES: Objection. Form. 9 THE WITNESS: If you don't define -- 10 the -- the -- the 483s as a whole, if you look 11 at them and talk about the identification of 12 user needs -- user needs or safety. And the 13 question is whether there is adequate design 14 controls to assure user needs and safety 15 issues. 16 And that was what the FDA was 17 saying. And there was not obviously the 18 adequate testing of the -- these vent -- I mean 19 in the case of Ventralex before that shift was 20 made. 21 BY MR. JESSEE: 22 Q. Do you know how many meetings FDA
1 aren't an official FDA position that the -- 2 there's some kind of safety issue with the 3 device or anything, right? 4 MS. STOKES: Objection. Form. 5 THE WITNESS: The recall starts 6 telling you -- I mean, when you start 7 recalling, that's when you start getting into 8 those issues. 9 MR. JESSEE: Right. 10 THE WITNESS: The -- the -- the 483s 11 have to do more here with, you know, the -- 12 what the quality system was in place for these 13 devices and whether the quality system -- the 14 quality systems -- the QSMs -- the quality 15 management system -- sorry -- was -- allowed 16 these devices to make sure to minimize and -- 17 the hazards and -- and what should have been 18 done as the design controls when the company 19 shifted to the point -- from the 0.042 to the 20 0.030 and should that have been tested be -- I 21 mean -- and -- in the long-term animal studies. 22 And that's what Ciavarella is -- is	1 had with Bard following the CK recall to 2 discuss their other ring products? 3 MS. STOKES: Objection. Form. 4 THE WITNESS: I have -- I mean I -- 5 I have looked specifically, you know, and I've 6 studied, and, you know, I have the slide decks 7 and the -- the presentations that were made if 8 you want to -- 9 MR. JESSEE: Yeah. Let's mark that 10 as an exhibit. 11 THE WITNESS: I tried to find the 12 meeting minutes from these. And I couldn't 13 find the meeting minutes. So I don't have a -- 14 I may not have a full record. But I have tried 15 to -- 16 MR. JESSEE: Okay. 17 THE WITNESS: -- study this. 18 MR. JESSEE: We'll put that as 19 Exhibit -- I believe we're on 30 now. 20 THE REPORTER: 31. 21 MR. JESSEE: 31. Thank you. 22 (Deposition Exhibit 31 was marked

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1 for identification.) 2 BY MR. JESSEE: 3 Q. And, Doctor, have you -- let me 4 strike that. 5 The -- with respect to the Ventralex 6 large, FDA hasn't taken any enforcement action, 7 correct? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: What do you consider 10 enforcement action? 11 Sorry. Do you consider a warning 12 letter -- 13 BY MR. JESSEE: 14 Q. Sure. We can include warning 15 letters in there. 16 A. So the -- the warning letter -- we 17 have to probably -- and -- and there's actually 18 two warning letters, if I think my memory 19 serves me right. There was one in New England, 20 and there was one in Puerto Rico. 21 I have to look -- I think -- the -- 22 the way I read certain portions of those	1 A. I think they're on the reliance 2 list. 3 Q. Okay. And I understand that. 4 The -- there's a difference between 5 a 438 and a warning letter? 6 A. Absolutely, sir. 7 Q. Okay. I just want to make sure 8 we're -- we're clear here. 9 A. The -- let me just -- 10 Q. And has any Immucor, the company 11 that you're the head of comp -- that you're on 12 the compliance committee for, gotten a warning 13 letter before? 14 A. I'm sure -- 15 MS. STOKES: Objection. Form. 16 THE WITNESS: I'd have to go back 17 and look at the history. But there were 18 certainly things that needed to be cleaned up 19 in that company. So I would -- yeah. Again, I 20 would not be surprised. But I have to review 21 the record. 22 BY MR. JESSEE:
1 warning letters, they weren't -- they -- they 2 related to the quality assurance system across 3 the board. They were not just specific to one 4 device. 5 But we'd have to pull those -- 6 those -- that language -- 7 Q. Okay. 8 A. -- to read. But I -- I think they 9 -- I think they related across the board. 10 Q. They -- the warning letter is not 11 discussed in your report, correct? 12 A. The 483s are -- I think they're on 13 my reliance list. 14 THE WITNESS: Can I get my 15 general -- 16 BY MR. JESSEE: 17 Q. And -- and I'm talking about the 18 body of your report. The -- I'm talking about 19 the warning letter. 20 A. The 483 is the warning letters. I 21 think they're -- 22 Q. Well, it --	1 Q. Have you reviewed the records for 2 Bard as to the actions that were taken after 3 any of the -- the warning letter you referred, 4 the 483s, or any of the external audits? 5 A. Yes. 6 MS. STOKES: Objection. Form. 7 THE WITNESS: I did, sir. 8 BY MR. JESSEE: 9 Q. Okay. And are you critical the -- 10 of the actions that Bard took in -- in response 11 to the different feedback that they received? 12 MS. STOKES: Objection. Form. 13 THE WITNESS: Well, I mean you have 14 the warning letter, I think, in, what, '07. 15 And then you have, if I'm correct -- can I just 16 have my audit -- my Quintiles audit sheets. 17 BY MR. JESSEE: 18 Q. And did you -- is -- did you know -- 19 A. Just -- just -- just let -- I 20 apologize. I'm only as good -- I just need one 21 second to be able to answer your question. I 22 just can't keep more than one question in my

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1 head. 2 So if -- if I understand the record, 3 that post Quintile -- post warning letters, 4 there was mock FDA inspection again in '08 and 5 that there is still criticism that some -- 6 there's -- there's issues with the quality 7 system post. And that -- that's shown in the 8 -- in the -- in the mock FDA -- 9 Q. And did you know that Quintiles is 10 owned by TPG Capital? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I'm -- I may have 13 known that. I mean, again, I -- it has been 14 different -- Quintiles is now what? I mean I 15 -- I've -- I have not been involved in 16 Quintiles and TPG Capital. But I have made no 17 -- that -- but I've not been involved in that. 18 BY MR. JESSEE: 19 Q. And you know that, from your 20 experience working with Immucor, that when the 21 FDA issues a 483 or a warning letter, that 22 they're going to follow up and make sure issues	Page 494 1 that should -- we find the corrective actions 2 which you've propose. Once they're fully 3 implemented, they should adequately address the 4 observations made. 5 BY MR. JESSEE: 6 Q. Okay. Are you aware of any 7 follow-up correspondence beyond that? 8 A. That's the letter that I'm aware of. 9 Q. Let's talk about the Ventralex 10 labeling. And this -- I take it your Ventralex 11 labeling opinions are not limited to the large 12 Ventralex. 13 And the -- the issues we've just 14 been talking about, the buckling, that's 15 limited to the large Ventralex, correct? 16 A. I'm -- I'm -- 17 MS. STOKES: Objection. Form. 18 THE WITNESS: That's a question 19 you're going to have to do slower. I'm sorry. 20 I just -- 21 BY MR. JESSEE: 22 Q. The issue --
1 are addressed? 2 MS. STOKES: Objection. Form. 3 THE WITNESS: Yeah. 4 MS. STOKES: Assumes facts. 5 BY MR. JESSEE: 6 Q. And have you seen the closeout 7 letter from the FDA for the warning letter at 8 issue for the -- in connection with the 9 Composix Kugel recall? 10 A. Yeah. So I -- I've specifically -- 11 yes. I have looked -- well, I have -- it's -- 12 it's not labeled as closeout letter. I -- I'm 13 aware of a December 17, 2008 letter. 14 Is that what we're referring to? 15 Q. I'm -- have you reviewed what you -- 16 a closeout letter to it? 17 I'm -- that's all I'm asking. 18 A. So I -- I -- 19 MS. STOKES: Objection. Form. 20 THE WITNESS: I'm aware of a letter 21 that's dated December 17, 2008, that says: If 22 you do what you say you would do, we will --	Page 495 1 A. I mean I'm not sure I -- I'm -- 2 it's -- it's associated with large; it's 3 nonassociated with large. 4 Q. Right. 5 The -- the issue -- 6 A. I'm not trying to -- 7 Q. -- with buckling that we were just 8 talking about, that's -- and it -- according to 9 your report, you say the large Ventralex is 10 what the title says, Ventralex large? 11 A. That's correct. 12 Q. Okay. And then -- so we're not 13 talking about -- when we're talking about that 14 issue is about the design controls; we're not 15 talking about the other size Ventralexes, 16 right? 17 MS. STOKES: Objection. Form. 18 Mischaracterizes. 19 THE WITNESS: Sir, because there's a 20 -- there was a limited -- let me make just sure 21 I understand. 22 Because there was a limited amount

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1 of time that I -- you know, and multiple 2 devices, it's my understanding that the 3 bellwether involved the large Ventralex, so I 4 looked at the large Ventralex. 5 BY MR. JESSEE: 6 Q. Okay. Do you know if the bellwether 7 cases involve any other Ventralex? 8 A. I -- I -- 9 MS. STOKES: Objection. Form. 10 THE WITNESS: If I'm -- the answer 11 is I'm only aware that it involves large 12 Ventralex. I mean so that's why I focused 13 there. 14 BY MR. JESSEE: 15 Q. Would it be fair to say, with regard 16 to the large Ventralex design, it's your 17 opinions you have in here that your criticisms 18 of -- are of the testing and -- and compliance 19 with design controls as opposed to what 20 different designs should have been used? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: Sorry. I don't	1 answer -- I'm not going to testify that they 2 should have gone to dual ring. But I'm aware 3 that that was in -- that was one of -- one of 4 the considerations. 5 Q. The -- is there -- for the Ventralex 6 IFU opinions you have in here, is there a 7 particular warning you think -- 8 A. That's the Ventralex -- 9 Q. IFU. 10 A. Right. So show me the I -- 11 Ventralex IFU opinion I have here. 12 Q. Sure. It is in your section -- 13 well, I -- I'll ask you. 14 Do you have Ventralex IFU opinions? 15 A. I have -- 16 MS. STOKES: Objection. Form. 17 Vague. 18 THE WITNESS: Again, it's a -- it's 19 a -- it's a broad question. I'd have to go 20 through the -- the report. 21 But I mean, as I understand my 22 Ventralex section, it was a failure to assure
1 understand the question. 2 BY MR. JESSEE: 3 Q. Are you offering opinion as to a 4 different design Bard should have used for the 5 Ventralex large? 6 MS. STOKES: Objection. Form. 7 THE WITNESS: No, I don't think I'm 8 going to -- it's -- I'm not going to say what 9 they should have used. I'm just going to say 10 when you make -- when they made the switch to 11 the 0.030 and they changed those 12 characteristics and the diameter of the ring. 13 I'm -- I'm going to say they should have tested 14 that. 15 I think there was some -- I mean I'm 16 aware that physician -- there was the issue of 17 dual rings. And there's some e-mail 18 correspondence saying that would require a new 19 510(k), and that would add time. And there was 20 a reluctance on the -- on the part of the 21 company to do that. 22 But I am not going to say that the	1 adequate testing and design controls. And also 2 on the Ventralex, the issue similarly of 3 adequate design controls to assure testing and 4 of the higher infection to where I do get to 5 the IFU. 6 And I think this is maybe -- you're 7 referring -- there's two paragraphs we looked 8 at earlier where I said specifically, if there 9 is evidence of a higher infection rate, then 10 the IFU should have warned. 11 So I think that probably is the 12 quote -- 13 MR. JESSEE: Okay. 14 THE WITNESS: -- for Ventralex IFU. 15 BY MR. JESSEE: 16 Q. And that -- so you're not -- 17 A. But -- but -- but I -- but -- but 18 that is conditioned. I'm not going -- I'm 19 saying that is was noticed. They should have 20 tested. They should have seen whether there 21 was high rate. And if, in fact, there was a 22 higher rate, then it should have been warned

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<p>1 about.</p> <p>2 Q. Okay. Thank you for clarifying</p> <p>3 that.</p> <p>4 PerFix Plug -- since we're running</p> <p>5 low on time, we're going to go through these</p> <p>6 products.</p> <p>7 A. My favorite.</p> <p>8 Q. And the -- have you -- you've</p> <p>9 reviewed the -- you reviewed the FDA's review</p> <p>10 memorandum for the Marlex mesh dart in the --</p> <p>11 A. I studied the dart extensively. I'm</p> <p>12 not sure -- the record is not -- I will tell</p> <p>13 you your -- your -- your discovery database in</p> <p>14 the early 19 -- going back to the 1990s is</p> <p>15 limited. So I -- I had some problems finding</p> <p>16 some information on the dart, if my memory</p> <p>17 serves me right.</p> <p>18 Q. Do you have any criticisms of the</p> <p>19 dart?</p> <p>20 MS. STOKES: Objection. Form.</p> <p>21 THE WITNESS: I'm going issue no</p> <p>22 opinions on the dart. I -- I issue no opinions</p>	<p>1 ahead and mark it as 32.</p> <p>2 Unfortunately, I only have one copy</p> <p>3 of this.</p> <p>4 (Deposition Exhibit 32 was marked</p> <p>5 for identification.)</p> <p>6 THE WITNESS: Can I share with</p> <p>7 counsel?</p> <p>8 MR. JESSEE: That's a good idea.</p> <p>9 BY MR. JESSEE:</p> <p>10 Q. And if -- as I understand your</p> <p>11 report, your criticism is that a -- the PerFix</p> <p>12 Plug IFU does not warn of chronic pain or of</p> <p>13 migration?</p> <p>14 MS. STOKES: Objection. Form.</p> <p>15 THE WITNESS: Correct.</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. How do you define "chronic pain"?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: It's -- I feel like</p> <p>20 I'm back in opioid land.</p> <p>21 MR. JESSEE: That's not good.</p> <p>22 THE WITNESS: I just -- I mean so</p>
<p>1 on the dart.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Okay. And that's the one we talked</p> <p>4 about was cleared while you were FDA</p> <p>5 commissioner, right?</p> <p>6 A. Correct.</p> <p>7 Q. And that's the one that's -- it's</p> <p>8 polypropylene, correct?</p> <p>9 A. Yeah. It's two layers rather than</p> <p>10 three. It's the mushroom cap. It doesn't have</p> <p>11 the needle. It's not three layers. It's -- it</p> <p>12 doesn't have as much mesh.</p> <p>13 Q. Okay. And I'm going to just show</p> <p>14 you -- do you have the PerFix Plug IFU --</p> <p>15 A. Yeah. It's --</p> <p>16 Q. -- with you?</p> <p>17 A. Oh, I thought you wanted the PerFix</p> <p>18 Plug.</p> <p>19 Q. No. Just the IFU.</p> <p>20 A. Yeah. I should have the -- I have</p> <p>21 the technical file.</p> <p>22 MR. JESSEE: I'm going to just go</p>	<p>1 there are -- there are a host of different</p> <p>2 definition by the different societies on</p> <p>3 chronic pain. I think that -- for the purposes</p> <p>4 of this device, I think it needs to be -- I</p> <p>5 think it -- it needs to be distinguished.</p> <p>6 I mean there is pain that is usually</p> <p>7 associated with surgery that is acute that</p> <p>8 revolves. And I think, when one uses the word</p> <p>9 "pain" in surgical procedures, that there's</p> <p>10 going to be a pain that's going to -- to</p> <p>11 resolve.</p> <p>12 I think chronic pain is</p> <p>13 distinguished from the acute surgical pain</p> <p>14 where the -- the usual healing period is</p> <p>15 over -- I'm not -- don't want to use the exact</p> <p>16 same terms as mesothelioma. But -- and yet</p> <p>17 there's chronic pain beyond that acute surgical</p> <p>18 healing period.</p> <p>19 BY MR. JESSEE:</p> <p>20 Q. Is there a particular amount of days</p> <p>21 that you would consider to be chronic pain?</p> <p>22 MS. STOKES: Objection. Form.</p>

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<p>1 THE WITNESS: I think it's pain past 2 the acute surgical period.</p> <p>3 BY MR. JESSEE:</p> <p>4 Q. Do you -- so you can't put a 5 particular date?</p> <p>6 A. I mean I can. There's different -- 7 there -- the -- the -- again, I would define it 8 as pain that doesn't resolve in the acute 9 surgical period.</p> <p>10 Q. Okay. And in the different sources, 11 you're talking about there's different -- how 12 long it is, there's going to be different 13 numbers in there, right?</p> <p>14 MS. STOKES: Objection.</p> <p>15 THE WITNESS: I'm sorry?</p> <p>16 BY MR. JESSEE:</p> <p>17 Q. Differing numbers in the different 18 sources you were talking about in --</p> <p>19 A. Yeah. I mean I -- there are -- I 20 mean I've -- I've lived this. But again, I 21 think in the surgical context, I think the best 22 definition of chronic pain is pain that remains</p>	<p>1 for identification.)</p> <p>2 THE WITNESS: Right. Can you do me 3 a favor and just tell me what -- the adverse 4 reactions. I have the Russian version here.</p> <p>5 BY MR. JESSEE:</p> <p>6 Q. Yeah. It's --</p> <p>7 A. Which page?</p> <p>8 Q. I'll -- I'll --</p> <p>9 A. The -- the Russian I'm not great at.</p> <p>10 Q. Yeah. I'll -- I'll tell you what.</p> <p>11 And I'll just represent to you they have in 12 here -- because I don't have the extra copy -- 13 the -- one of the adverse reactions listed is 14 extrusion.</p> <p>15 Is that -- I mean is that -- do you 16 have any reason to believe that that's not 17 accurate?</p> <p>18 MS. STOKES: Objection. Form.</p> <p>19 THE WITNESS: Whether it is not --</p> <p>20 I'm sorry. What's the question?</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. No. Whether an -- one of the</p>
<p>1 past the acute surgical period.</p> <p>2 Q. How do you define migration in the 3 -- in context of your opinions in the PerFix 4 Plug?</p> <p>5 A. The device is not in the right 6 place.</p> <p>7 Q. The -- let's look at the IFUs for 8 the PerFix Plugs, the adverse events -- adverse 9 reactions section.</p> <p>10 A. I mean there's also this issue of -- 11 this is not the same at dart. I mean it -- and 12 there's issues on substantial equivalence. I 13 just want to --</p> <p>14 MR. JESSEE: Okay. Well, let's go 15 ahead -- we'll mark this then while we're -- 16 while you're going to the adverse reaction. 17 We're still okay with it. Adverse reaction.</p> <p>18 THE WITNESS: Great. I -- I --</p> <p>19 MR. JESSEE: This is going to be 33. 20 And this will be the -- the mesh dart FOIA 21 510(k).</p> <p>22 (Deposition Exhibit 33 was marked</p>	<p>1 adverse reactions listed is extrusion?</p> <p>2 MS. STOKES: Objection. Form.</p> <p>3 THE WITNESS: I'm -- I'll take 4 your -- I'll take your --</p> <p>5 MR. JESSEE: Okay.</p> <p>6 THE WITNESS: -- representation.</p> <p>7 BY MR. JESSEE:</p> <p>8 Q. What -- what does extrusion mean in 9 the inguinal hernia repair context?</p> <p>10 A. Extrusion usually means that it's 11 pushed outside.</p> <p>12 Q. Okay.</p> <p>13 A. It's pushed out -- it's pushed 14 outside of its canal.</p> <p>15 Q. The -- would you agree that the IFUs 16 for PerFix -- and I don't know if you have a 17 better copy. I apologize. I know that's small 18 there to try to read -- talk about, though, how 19 the physician should pick the right size and 20 make sure it's fixated, the device?</p> <p>21 A. I have to look specifically. I'm -- 22 I -- I don't have -- I mean I -- at some points</p>

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1 I looked at the fixation requirement on 2 lingual. I don't want to make any 3 representations without having these out in 4 front of me. 5 Q. Okay. The -- 6 MR. JESSEE: Did I give you a copy 7 of that? Yeah. 8 MS. STOKES: Yes. 9 BY MR. JESSEE: 10 Q. Exhibit 33 is the FOIA file for the 11 Marlex mesh dart. And -- 12 A. Does this have an -- does this have 13 an MPPE? 14 Is this -- is this from the 15 database? 16 Q. I don't -- these are one of the 17 publicly available things. I'm not sure if 18 it's in the database or not. 19 A. So it wasn't produced. 20 Q. I -- I can't tell you. 21 A. It doesn't have a -- it doesn't have 22 a Bates number.	1 THE WITNESS: So with that -- so let 2 me just answer that question. So -- 3 BY MR. JESSEE: 4 Q. And actually, you know what? It 5 might be easier, that document I gave you, if 6 we were to look at -- and it's double-sided. 7 A. Hold on one second. Well, I have 8 the letter file. And I have all -- 9 Q. Okay. 10 A. -- the testing that was done. 11 So what testing did you say? 12 Q. Well, in the -- in the letter to the 13 file, do you see the executive summary -- 14 A. I have -- 15 Q. -- section? 16 A. I have it right in front of me. 17 Q. Okay. And you see at the footnote 18 at the bottom of the page it talks about: 19 Formally known as Marlex mesh. Marlex is a 20 trademark of Phillips Petroleum"? 21 A. Correct. 22 Q. And the -- right about that picture
1 Q. Do you know -- do you recall 2 reviewing the -- review memorandum from the 3 Bard Marlex mesh? 4 A. I -- I looked for this stuff in the 5 database. And I don't remember being able to 6 see it. Let's me just -- let me just -- keep 7 on asking me, and I'll answer your -- 8 Q. Sure. 9 A. Yeah. So I did -- I was able to 10 finally -- 11 Q. You -- you under -- 12 A. I have the 1992 -- 13 Q. Okay. And I -- I know you talk 14 about the note to file that was submitted. 15 A. On PerFix. 16 Q. On PerFix, right? 17 A. Right. 18 Q. And with that note to file, there 19 were submitted several clinical studies, 20 correct? 21 MS. STOKES: Objection. Form. 22 Vague.	1 where I just read, the footnote says -- talking 2 about the Bard mesh and mesh dart. And it 3 says: Since that time, the safety and 4 effectiveness of the PerFix -- 5 A. Do -- only -- my only complaint to 6 your -- is you got to point me where I'm going. 7 MS. STOKES: Yeah. What page are 8 you on? 9 MR. JESSEE: I am on the -- the -- 10 in the executive summary there. 11 THE WITNESS: Just which paragraph? 12 MS. STOKES: On your document, which 13 page are you on? 14 MR. JESSEE: With the -- I don't 15 think there's numbering. 16 THE WITNESS: I'm only Page 2. 17 BY MR. JESSEE: 18 Q. Let me just have a -- I'll do this 19 differently. 20 Can you just explain to me in your 21 own words what your criticisms of the note to 22 file are?

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1 MS. STOKES: Objection. Form. 2 THE WITNESS: My -- my real 3 criticism of this is Bard changed the 4 characteristics of the device in two ways. 5 One, it increased the amount of -- of mesh to 6 three layers. And if you go feel it, you 7 can -- you know, this has -- you know, this 8 hasn't pointed -- has some kind of needle 9 stitch here. 10 And it certainly could raise 11 questions -- more mesh in that space, differing 12 configuration, a pointed needle stitch, that 13 could -- could raise safety questions. 14 So again, it's supposed to be the 15 same as the dart, but it's not the same as the 16 dart. 17 Q. Did the FDA, when Bard submitted the 18 note to file, indicate -- give any indication 19 to Bard that they thought it was -- Bard's 20 actions were inappropriate? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: It was the -- well,	1 And so FDA said, "Hey, we can't go ahead and 2 look at the light without looking at the -- 3 having a regulatory record here." 4 Q. Have you -- but they never acquired 5 a 510(k) for the -- can we agree on the -- for 6 the PerFix -- regular PerFix -- they never 7 acquired -- they -- the -- PerFix 510(k)? 8 MS. STOKES: Objection. Form. 9 THE WITNESS: That -- that -- 10 that -- correct. They let Bard get away with 11 -- because it was already -- it had already 12 been a decade with it. You know, it was one of 13 those questions. 14 BY MR. JESSEE: 15 Q. And the -- the FDA has never 16 required either premarket or postmarket 17 clinical studies for the PerFix, right. 18 A. It's not -- there's been no 522 19 or -- 20 Q. And that's true for all the hernia 21 mesh devices we've talked about today, right? 22 MS. STOKES: Objection. Form.
1 it -- it did say that you -- you should go back 2 and submit this stuff. We can't approve the 3 like without having this note to the file and 4 this documentation. 5 It -- so it was inappropriate not to 6 have the documentation on the -- the -- this 7 PerFix was evaluated. It couldn't move to 8 light. The FDA was very clear on that. 9 BY MR. JESSEE: 10 Q. And the FDA though didn't require 11 them to file a 510(k) for the PerFix Plug, 12 correct? 13 A. No. They had filed a 510(k) that 14 was a lighter mesh, right, which -- and the FDA 15 -- this was now how many -- this is, what, how 16 many years later, a decade-plus. I forget 17 exactly. 2003. Light was when? I mean 18 2000 -- I -- I forgot exactly what was the 19 date. 20 Q. I mean that's -- that's fine. 21 We're -- 22 A. Was about -- about a decade later.	1 THE WITNESS: Not yet. 2 BY MR. JESSEE: 3 Q. Right. 4 They -- as we sit here today, they 5 haven't -- you haven't seen any indication that 6 they're going to either, have you? 7 MS. STOKES: Objection. Form. 8 THE WITNESS: The -- that's correct. 9 But it's -- you know, we -- we've been through 10 this with urogynecological meshes and we -- 11 there are -- when there are issues and when FDA 12 focuses. 13 But you are correct. There is no 14 522 order. And I don't see a FDA focus on 15 these devices at this moment in time. 16 BY MR. JESSEE: 17 Q. And why do you say that? 18 A. It's what I see from the record. 19 Q. The -- have you reviewed labeling 20 for any other plug mesh devices? 21 MS. STOKES: Objection. Form. 22 THE WITNESS: Only dart and PerFix.
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<p>1 BY MR. JESSEE:</p> <p>2 Q. Okay. That's -- when you're saying 3 "dart," you mean the Marlex mesh dart?</p> <p>4 A. Yes, sir.</p> <p>5 Q. Okay. The 3DMax, the -- your 6 opinion there, I believe, is --</p> <p>7 A. Similar.</p> <p>8 Q. Right.</p> <p>9 In the -- in that you say they 10 admitted certain warnings from the labeling and 11 they --</p> <p>12 A. It's chronic pain.</p> <p>13 Q. Chronic pain is that what --</p> <p>14 A. Same thing.</p> <p>15 Q. Okay. And you understand that --</p> <p>16 that's -- is that the extent of your -- and 17 that's what I see in your report in there, the 18 extent of your criticisms of the 3DMax?</p> <p>19 MS. STOKES: Objection. Form.</p> <p>20 THE WITNESS: Yeah. I think that's 21 -- yeah. I mean I think that there -- the 22 issue is simply the complaints and the -- the</p>	<p>1 unfortunately.</p> <p>2 The -- you know, I -- we've -- we've 3 talked about I think the -- have we talked 4 about your criticisms as they relate to the 5 four devices: the 3DMAX, the PerFix Plug, the 6 Ventralex, and the Ventralfight ST?</p> <p>7 MS. STOKES: Objection. Form.</p> <p>8 THE WITNESS: The two -- there's -- 9 there's a Ventralex with PET and a Ventralex 10 with PDO. And there's a shift.</p> <p>11 Did we talk about -- I think we 12 talked about --</p> <p>13 BY MR. JESSEE:</p> <p>14 Q. Well, do you have any criticisms of 15 the shift to the PDO ring?</p> <p>16 Because I didn't see them in your 17 report.</p> <p>18 A. I think that the issues with -- 19 certainly with infection -- the -- the -- 20 anything that -- anything that applied on the 21 higher rate of infection would apply to the PDO 22 ring as well as the PET.</p>
<p>1 concerns about long-term pain.</p> <p>2 BY MR. JESSEE:</p> <p>3 Q. Okay. And so -- again, with -- with 4 the 3DMax Light with PerFix Plug -- well, let 5 me just strike that.</p> <p>6 With the 3DMax, the -- the -- Bard 7 did submit the IFU to the FDA, right?</p> <p>8 MS. STOKES: Objection. Form.</p> <p>9 THE WITNESS: That was before my 10 time, I believe -- let's see. What was the 11 date of 3DMax?</p> <p>12 Can I have my general -- can I 13 please have my general sheet. Let me just see.</p> <p>14 Yeah. So that is a -- that's a 15 1979. I don't have the -- do I have -- I'm not 16 sure I have the 510(k). I -- I'll answer that 17 in a second.</p> <p>18 Yep. I actually -- I have a tubular 19 510(k). I can go through it and tell you what 20 they submitted.</p> <p>21 BY MR. JESSEE:</p> <p>22 Q. I don't think we have time for that,</p>	<p>1 Q. Okay. And you understand though 2 that the -- so your opinions about infection 3 with respect to the Ventralex relate to ePTFE, 4 not some other aspect of the device?</p> <p>5 MS. STOKES: Objection. Form.</p> <p>6 THE WITNESS: I'm not sure I fully 7 understand the question. I'm sorry.</p> <p>8 BY MR. JESSEE:</p> <p>9 Q. Well, you're obviously -- if you're 10 saying that your opinions on infection are 11 applied to whether it's the PDO ring or the PET 12 ring, obviously the ring is not any -- not any 13 issue -- not related to the infection issue, 14 right?</p> <p>15 MS. STOKES: Objection. Form.</p> <p>16 THE WITNESS: Yeah. I'm not sure 17 you -- I mean you're -- you're correct --</p> <p>18 MR. JESSEE: Maybe I can ask a 19 better question.</p> <p>20 THE WITNESS: You're correct, in 21 part, that the things are connected. So I just 22 don't want to --</p>

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1 BY MR. JESSEE: 2 Q. Okay. And your opinions on this 3 ground are really about the design controls in 4 place, right? 5 MS. STOKES: Objection. Form. 6 THE WITNESS: Fair. 7 BY MR. JESSEE: 8 Q. Okay. But -- and there's actually 9 different though -- does -- there a different 10 design validation testing done for the PDO and 11 PET, correct? 12 A. I believe that -- that's correct. 13 I don't see infection -- the -- the 14 infect -- evaluation of infection, 15 susceptibility and holding the bacteria and 16 clearance of bacteria in either. 17 Q. Okay. And the -- have you reviewed 18 the design history file for the PDO? 19 A. I'd have to go back and check. I 20 think I have the design history file. 21 Q. Okay. Do you know what animal 22 testing was done on that PDO ring?	1 appropriate for a medical device company to 2 bring in third-party companies or organizations 3 to do audits of their quality systems? 4 A. Sure. 5 Q. Would you agree that it would be 6 unreasonable for a medical device manufacturer 7 to not consider FDA regulations and standard in 8 bringing a device to market? 9 MS. STOKES: Objection. Form. 10 THE WITNESS: Do it -- do it without 11 a negative. I'm sorry. I just want to make 12 sure. You have "unreasonable" and then "not 13 consider." And my brain is not going process 14 both words in the same sentence. 15 BY MR. JESSEE: 16 Q. A -- a reasonable medical device 17 manufacturer would consider FDA standards and 18 regulations in bringing a medical device to 19 market, correct? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: Well said. 22 BY MR. JESSEE:
1 MS. STOKES: Objection. Form. 2 Vague. 3 THE WITNESS: I think you've -- I 4 think you've -- I don't think -- I think you've 5 stumped me. I mean I -- I'd have to -- I'd 6 have to go pull and sort it out. 7 I have all -- I have all the testing 8 -- I mean I have all the testing that was done 9 on Ventralex over the years. But I would have 10 to sort out PDO and PET. 11 BY MR. JESSEE: 12 Q. Would you agree that it's not -- 13 it's not a good thing for medical device 14 manufacturers to bring in third-party companies 15 to do audits? 16 MS. STOKES: Objection. Form. 17 THE WITNESS: I was fine until you 18 have a negative in there. So you lost me to -- 19 can you do it in the -- without a negative 20 there. 21 BY MR. JESSEE: 22 Q. Would you agree that it's	1 Q. Okay. And that's true whether it's 2 through the 510(k) process or the PMA process, 3 correct? 4 A. Of course. 5 MS. STOKES: Objection. Form. 6 BY MR. JESSEE: 7 Q. And it's be unreasonable for a 8 manufacturer not to consider FDA standards in 9 regulations, right? 10 A. Absolutely. 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I mean -- again, 13 absolutely. But the -- but the -- and just add 14 to that and -- and ultimate patient safety, and 15 we will -- I'm very happy to agree with you. 16 BY MR. JESSEE: 17 Q. Okay. And that -- we can agree. I 18 wasn't saying that was the only thing, but 19 that's certainly one of the things -- 20 A. But -- but -- right. But the -- the 21 real issue is those standards as it relates to 22 patient safety.

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1 Q. Okay. In the -- you've testified at 2 trials about the FDA's review of medical 3 devices before, right? 4 A. I have. 5 Q. And that's including 5 -- trials 6 involving 510(k) devices? 7 A. I'm sure. 8 Q. And with your experience, you can -- 9 you're -- you've been able to explain to a jury 10 about the 510(k) process? 11 MS. STOKES: Objection. Form. 12 THE WITNESS: I think so. Yes. 13 BY MR. JESSEE: 14 Q. And it's -- 15 A. Yes. And I'm not trying to 16 understand your -- your question, what -- 17 Q. Did you feel like you had any 18 difficulty explaining the concept of 510(k) to 19 a jury? 20 MS. STOKES: Objection. Form. 21 THE WITNESS: I -- I -- if you give 22 me a few minutes, I can explain it. I'm -- to	1 we've dealt with anything -- I think that we 2 dealt earlier with some of the issues with 3 regard to the -- Dr. Tillman's comments on the 4 MSDS and my opinions or my -- my views, 5 whatever, of that. And I put that on the 6 record. 7 Save for that, I appreciate very 8 much your -- 9 MR. JESSEE: All right. Thank you, 10 Doctor. That's all the questions I have for 11 you. 12 THE WITNESS: Thank you very much, 13 sir. I appreciate the -- the kindness. 14 MS. STOKES: Let's take a quick 15 break. 16 MR. JESSEE: Well, and I should say 17 pending questions from your counsel. 18 THE VIDEOGRAPHER: We are going off 19 the record. 20 The time is 4:41. 21 (A short recess was taken.) 22 THE VIDEOGRAPHER: We are going back
1 explain it under rapid fire -- we could -- I 2 mean maybe not. But I'm sure you and I could 3 do a module that we can explain it. 4 MR. JESSEE: Okay. 5 THE WITNESS: I mean -- but it -- it 6 -- I mean it takes a couple of minutes to 7 explain it. It's not in a -- you know, it's 8 not something that someone's going to 9 understand. 10 But in -- in -- in five minutes, I 11 think I can explain it. 12 BY MR. JESSEE: 13 Q. And, Dr. Kessler, again, I've tried 14 to be thorough today. I appreciate your -- 15 your patience in doing that. 16 Any other opinions that either 17 aren't in the body of your report or that we 18 haven't discussed today about the Bard's -- 19 about Bard's hernia mesh products? 20 A. I think -- I think we've -- 21 MS. STOKES: Objection. Form. 22 THE WITNESS: You know, I -- I think	1 on the record. 2 The time is 4:57. 3 EXAMINATION BY COUNSEL FOR PLAINTIFFS 4 BY MS. STOKES: 5 Q. Dr. Kessler, I just want to make 6 sure that the record is clear. 7 What is your opinion on the MSDS? 8 MR. JESSEE: Objection to the form. 9 THE WITNESS: Gerard, can just I 10 trouble you for my MSDS sheets just so I can 11 have those in front of me. 12 So there's -- there's actually 13 several different sheets. There -- there were 14 early sheets. There were 2004 sheets of 15 Phillips -- I'm not going to pronounce it 16 right -- Sumika. There are -- I think I have 17 -- I just get -- and I'm not going to pronounce 18 this one also -- Lyondellbasell. 19 So there are a number of different 20 suppliers counsel asked me earlier about which 21 was used at which points in time. And that's 22 answered in the interrogatory questions.

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<p>1 Because the -- the -- the FDA, 2 through ISO 10993, Part 18, concurs with the 3 ISO standard that each -- each material be well 4 characterized chemically, and because there is 5 in the technical file and in the MSDS issues 6 with regard to degradation of the material, 7 right? I mean in these MSDS -- certainly in -- 8 in -- in -- as I read it, there is -- and 9 there's also a warning -- I believe Marlex -- 10 they're -- they're -- they're stated a little 11 differently. Do not use -- the -- the -- the 12 Marlex says: Do not use Phillips Sumika 13 polypropylene material in medical applications.</p> <p>14 And it -- it -- goes on. And I 15 think the Lyondell -- I'm -- the -- the -- the 16 other MDS -- the Pro-fax MDS I think states it 17 a little differently and says: Don't use -- 18 may not be used in U.S. -- This product may not 19 be used in the manufacture any of the following 20 without written prior approval for U.S. Class I 21 or Class II.</p> <p>22 I mean, again, I'm -- I'm</p>	<p>Page 530</p> <p>1 testimony. We -- as I said, we had no notice 2 to do -- conduct a meaningful cross-examination 3 of those opinions.</p> <p>4 And so we would reserve the right -- 5 to the extent the opinions are allowed, which 6 we obviously suggest they should not be, we 7 reserve the right to conduct an additional 8 deposition on those opinions.</p> <p>9 MS. STOKES: Obviously plaintiffs 10 disagree. But we can take it up with the 11 Court.</p> <p>12 MR. JESSEE: Oh, and let's -- I'm 13 sorry. Just real fast then.</p> <p>14 Doctor, we've discussed the -- about 15 the -- the documents you brought with us. And 16 you're going to make your best faith effort, 17 after they are copied, to keep them until this 18 litigation's over, right?</p> <p>19 THE WITNESS: Yeah. Absolutely. 20 They just keep me -- I will -- I promise to 21 try -- I will keep them in my garage as soon as 22 I have them and try to keep them in good</p>
<p>1 summarizing.</p> <p>2 But because of that issue of 3 oxidative damages as part of the chemical 4 characterization, that could present a 5 potential safety hazard and, therefore, should 6 be warned about.</p> <p>7 MS. STOKES: All right. Thank you.</p> <p>8 MR. JESSEE: And I just want to note 9 on the record that it's Bard's position that 10 the -- this issue of the MSDS and the testimony 11 that was just given was not in Dr. Kessler's 12 expert report; it was not in his errata sheet 13 that was served on us yesterday. We had no 14 notice whatsoever of this opinions regarding 15 MSDS, degradation, oxidation, raw materials 16 that was just testified to.</p> <p>17 And we object and think it's 18 improper, those opinions. To the extent Dr. 19 Kessler is allowed to give those opinions, we 20 reserve the right to depose him on those issues 21 at a time where we will -- as today, we don't 22 have the MSDS documents. We don't have the</p>	<p>Page 531</p> <p>Page 533</p> <p>1 storage.</p> <p>2 If you guys can -- if you can keep 3 me abreast of when this litigation is over.</p> <p>4 Sometimes that's a nebulous term.</p> <p>5 MR. JESSEE: You're asking the wrong 6 person.</p> <p>7 THE WITNESS: I -- I -- I -- you 8 know --</p> <p>9 MR. JESSEE: Yeah, that's --</p> <p>10 THE WITNESS: What that point in 11 time is -- let's agree that I'm happy to keep 12 them -- pick a -- pick a -- pick a -- a fair 13 period of time.</p> <p>14 You want three years? What do you 15 want?</p> <p>16 MR. JESSEE: Whatever. We can 17 figure that out.</p> <p>18 THE WITNESS: Yeah. But just so you 19 understand "litigation over" is a --</p> <p>20 MR. JESSEE: Yeah.</p> <p>21 THE WITNESS: -- little vague.</p> <p>22 MR. JESSEE: I --</p>

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January 31, 2020

<p>1 THE WITNESS: I mean certainly, if</p> <p>2 I'm involved -- I will keep them as long as I'm</p> <p>3 involved.</p> <p>4 MR. JESSEE: Okay. And then, Ms.</p> <p>5 Stokes, we are agreeable that you're -- you'll</p> <p>6 have -- send those exhibits that have been</p> <p>7 here, make copies, and just make representation</p> <p>8 that you're not going to make any changes to</p> <p>9 them?</p> <p>10 MS. STOKES: Yeah. We will</p> <p>11 instruct -- we will be very careful to instruct</p> <p>12 the vendor not to make any changes --</p> <p>13 MR. JESSEE: Okay. What --</p> <p>14 MS. STOKES: -- and keep them in</p> <p>15 order.</p> <p>16 MR. JESSEE: Great. And that's</p> <p>17 agreeable for us.</p> <p>18 The one quick issue then on the</p> <p>19 exhibits. I accidentally labeled two exhibits</p> <p>20 28. So what we're going to do is label device</p> <p>21 labeling guidance exhibit, which was the first</p> <p>22 one marked Exhibit 28 is 28A. And this is from</p>	<p>Page 534</p> <p>1 CERTIFICATE OF NOTARY PUBLIC</p> <p>2 I, Bonnie L. Russo, the officer before</p> <p>3 whom the foregoing deposition was taken, do</p> <p>4 hereby certify that the witness whose testimony</p> <p>5 appears in the foregoing deposition was duly</p> <p>6 sworn by me; that the testimony of said witness</p> <p>7 was taken by me in shorthand and thereafter</p> <p>8 reduced to computerized transcription under my</p> <p>9 direction; that said deposition is a true</p> <p>10 record of the testimony given by said witness;</p> <p>11 that I am neither counsel for, related to, nor</p> <p>12 employed by any of the parties to the action in</p> <p>13 which this deposition was taken; and further,</p> <p>14 that I am not a relative or employee of any</p> <p>15 attorney or counsel employed by the parties</p> <p>16 hereto, nor financially or otherwise interested</p> <p>17 in the outcome of the action.</p> <p>18</p> <p>19 <i>Bonnie L. Russo</i></p> <p>20 Notary Public in and for</p> <p>21 the District of Columbia</p> <p>22 My Commission expires: June 30, 2020</p>																																	
<p>Page 535</p> <p>1 1991.</p> <p>2 And then the Ventralight ST</p> <p>3 instructions for use we are going to label as</p> <p>4 28B.</p> <p>5 That's all I have.</p> <p>6 MS. STOKES: All right.</p> <p>7 MR. JESSEE: Okay.</p> <p>8 THE VIDEOGRAPHER: We are off the</p> <p>9 record at 5:03 p.m.</p> <p>10 And this concludes today's testimony</p> <p>11 given by Dr. David A. Kessler.</p> <p>12 The total number of Media Units used</p> <p>13 was five and will be retained by Veritext Legal</p> <p>14 Solutions.</p> <p>15 (Whereupon, the proceeding was</p> <p>16 concluded at 5:03 p.m.)</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p>	<p>Page 537</p> <p>1 ACKNOWLEDGMENT OF DEPONENT</p> <p>2 I, DAVID A. KESSLER, M.D. do hereby certify</p> <p>3 that I have read the foregoing transcript of my</p> <p>4 testimony taken on 1/31/20, and further certify</p> <p>5 that it is a true and accurate record of my</p> <p>6 testimony (with the exception of the</p> <p>7 corrections listed below):</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">8 Page</th> <th style="text-align: left;">Line</th> <th style="text-align: left;">Correction</th> </tr> </thead> <tbody> <tr> <td>9</td> <td> </td> <td> </td> </tr> <tr> <td>10</td> <td> </td> <td> </td> </tr> <tr> <td>11</td> <td> </td> <td> </td> </tr> <tr> <td>12</td> <td> </td> <td> </td> </tr> <tr> <td>13</td> <td> </td> <td> </td> </tr> <tr> <td>14</td> <td> </td> <td> </td> </tr> <tr> <td>15</td> <td> </td> <td> </td> </tr> <tr> <td>16</td> <td> </td> <td> </td> </tr> <tr> <td>17</td> <td> </td> <td> </td> </tr> <tr> <td>18</td> <td> </td> <td> </td> </tr> </tbody> </table> <p style="text-align: right;">DAVID A. KESSLER, M.D.</p> <p>19 SUBSCRIBED AND SWORN TO BEFORE ME</p> <p>20 THIS ____ DAY OF _____, 2020.</p> <p>21</p> <p>22 (NOTARY PUBLIC) MY COMMISSION EXPIRES:</p>	8 Page	Line	Correction	9			10			11			12			13			14			15			16			17			18		
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